Multi-wash Infinity II Upgrade Kit (G4757A)

Installation Note

In this note we describe how to install the Multi-Wash Infinity II Upgrade Kit (G4757A) into an Agilent 1200 Infinity II Series multisampler.

Contents

Agilent Technologies

General Information

The multi-wash upgrade kit is designed for low carry over and can be installed in any Agilent 1200 Infinity II Series multisampler.

With the multi-wash kit you can minimize carry over for critical samples. You can either reduce the carry over by washing the outer needle surface with the choice of three different wash solvents or you back flush the needle seat and the rotor seal with the appropriate solvents. This integrated feature reduces the carry over to less than 9 ppm.
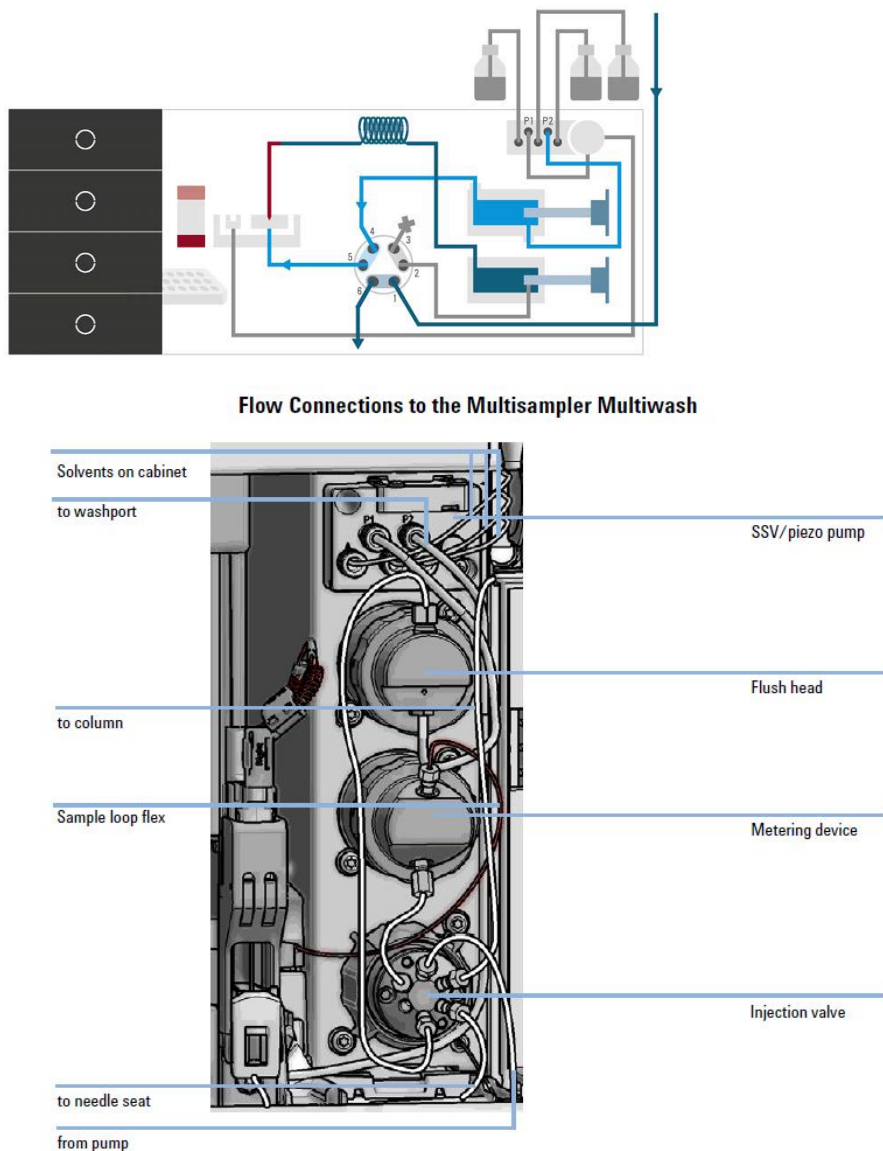

Flow Connections to the Multisampler Multiwash

Figure 1 Valve in bypass, needle backflush (Multiwash)

NOTE : If the multisampler multi-wash option is installed you will lose the ability to do multi-draw.

Delivery Checklist

Make sure all parts and materials have been delivered with the upgrade kit. Report missing or damaged parts to your local Agilent Technologies sales and service office.

p/n	Description	
G4267-68708	Drain Management Kit	1
G4267-60049	Flush Head 500ul	1
5067-5942	Flush Pump SST-Capillary 250x0.25	1
G4220-60007	Bottle Head Assembly	2
G4267-60008*	Hydraulic Multi Wash	1
G4267-60081	Tubing Kit Sampler Multi-wash	1
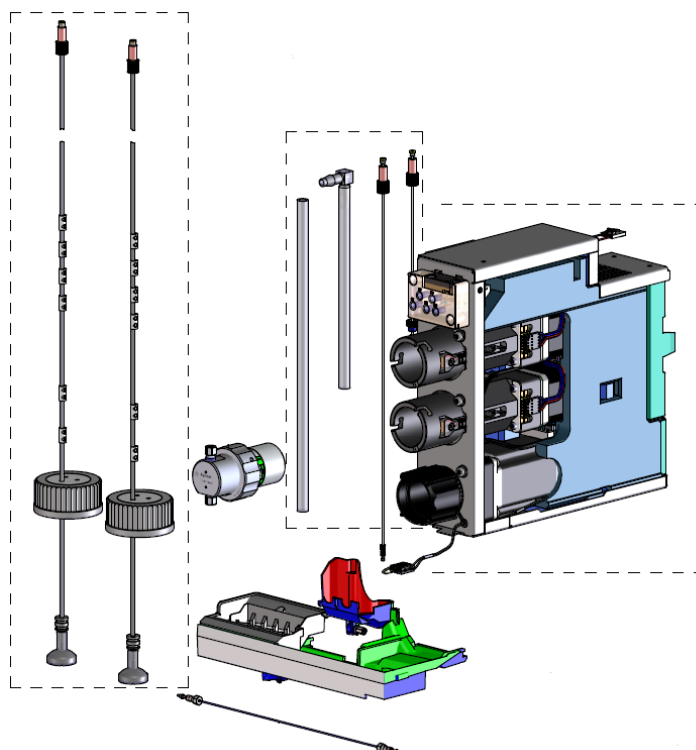
*this is an internal partnumber and not orderable

Installing the Multi-Wash Upgrade Kit

The installation of the upgrade kit is divided into three parts, removing of the
standard hydraulic box, configure and installing the multi-wash hydraulic box, plus configure the
new multi-wash feature in the CDS.

Tools required
1/4 inch wrench
2.5 mm hex key
4 mm hex key

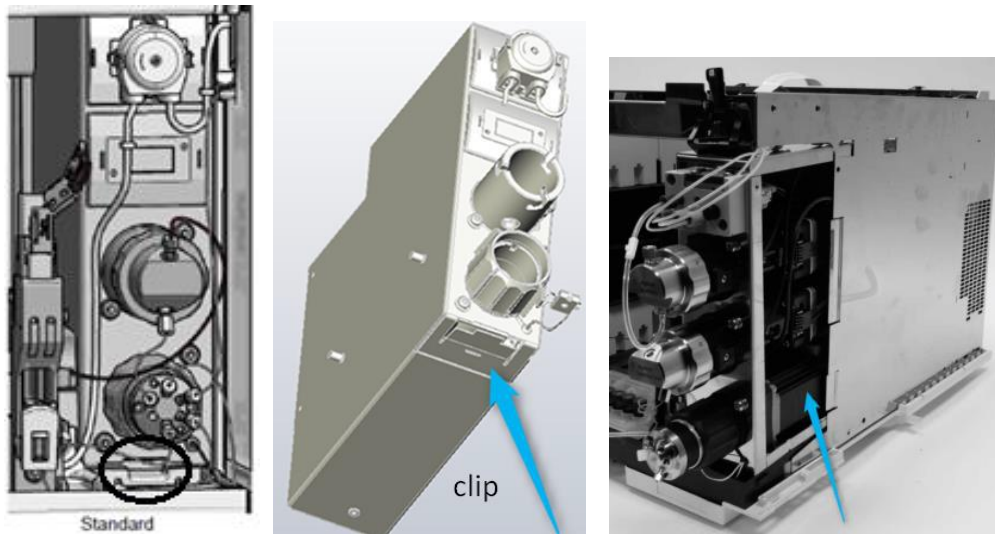# Removing of the Hydraulic Box

1. Go to the maintenance function (Agilent LabAdvisor or control module) and select Change
   Piston / Change Seal. Wait until the metering drive is in the rear position.
2. Switch off the instrument
3. Remove the capillaries, the tubing and the leak sensor which are connected to the hydraulic box.
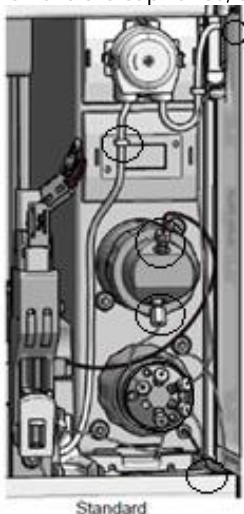
Standard

4. Remove the injection valve and the analytical head from the standard hydraulic box. For further info check the service manual.

   >>>>>>>>
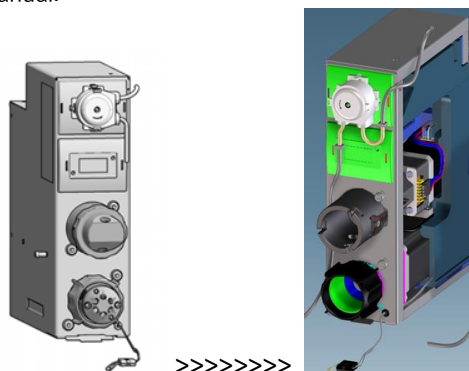
5. Lift the clip and pull out the standard hydraulic box out of the mainframe standard hydraulic box

Installing of the Hydraulic Box

1. Check the revision of the drain management kit especially the washport tubing. If necessary upgrade the complete drain management kit. For further info check service manual.
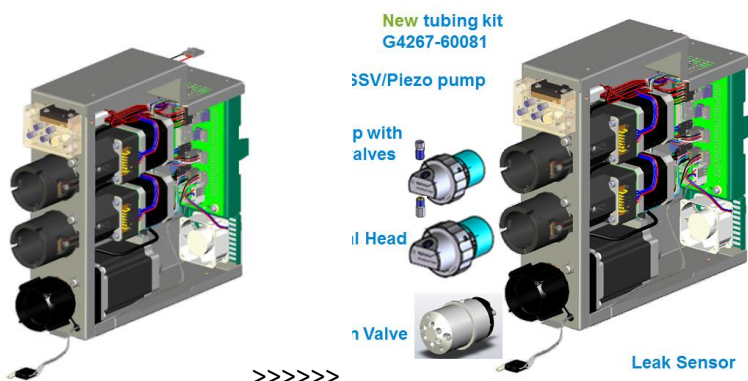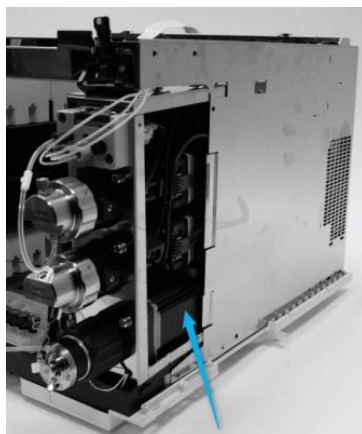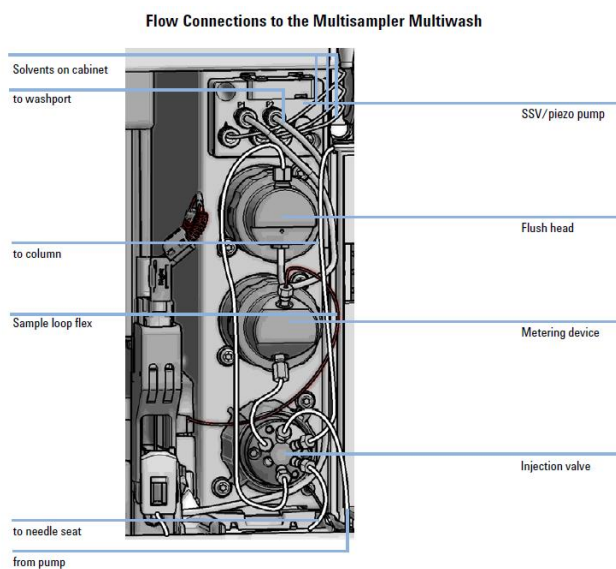

old

new

2. Install the injection valve and the analytical head from the standard hydraulic box into the multiwash hydraulic box

New tubing kit
G4267-60081

SSV/Piezo pump

p with
alves

l Head

n Valve

>>>>>>

Leak Sensor

2. Slide in the whole new multi-wash hydraulic unit.

3. Reinstall the capillaries, the tubing and the leak sensor which are connected to the hydraulic box.

Flow Connections to the Multisampler Multiwash

Solvents on cabinet
to washport

SSV/piezo pump

Flush head

to column

Sample loop flex

Metering device

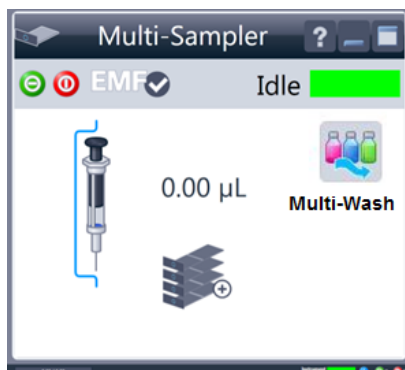Injection valve

to needle seat

from pump

4. Prime the tubing with appropriate wash solvent and run Prime to Seat and prime to Wash port for at least 30 sec.
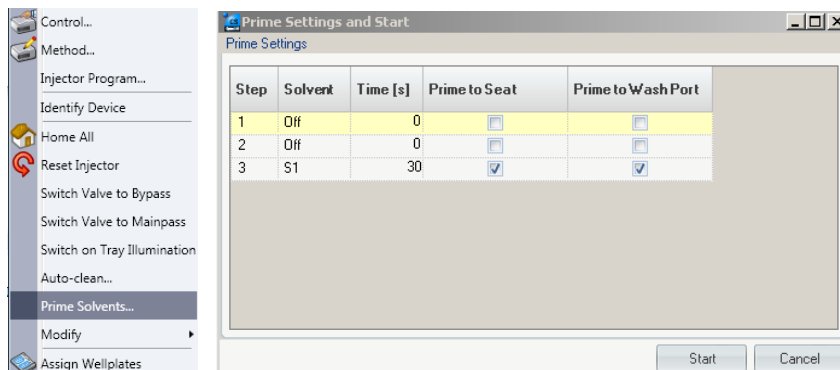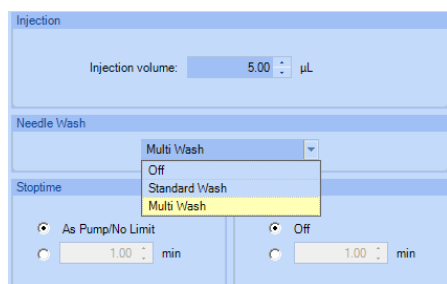

5. Perform a pressure test in LabAdvisor

Configuration of the Multi-wash in the CDS

The configuration of your controller is not necessary to enable the multi-wash mode. In the GUI you will see the new multi-wash icon.

OpenLab Configuration C.01.06 and above

1 Select Instrument in the menu.

2 Select Setup Instrument method.

3 Mark the execute **multi-wash** check box.

**4** Specify the duration of your solvent S1, S2 and S3 in the multi-wash table.

Step	Solvent	Time [s]	Seat Back Flush	Needle Wash	Comment
1	Off		☐	☐	
2	S2	30	☐	☑	2-Propanol
3	S3	18	☑	☐	ACN
Start Cond.	S1		☑	☑	

IMPORTANT: It takes approximately 30 seconds to fully exchange one solvent for another in the flush port. To flush and exchange the solvent in the seat, it takes 18 seconds. Additionally, it is strongly recommended to use the Auto-clean function to flush the 1290 Infinity II Multisampler regularly with all installed solvents.
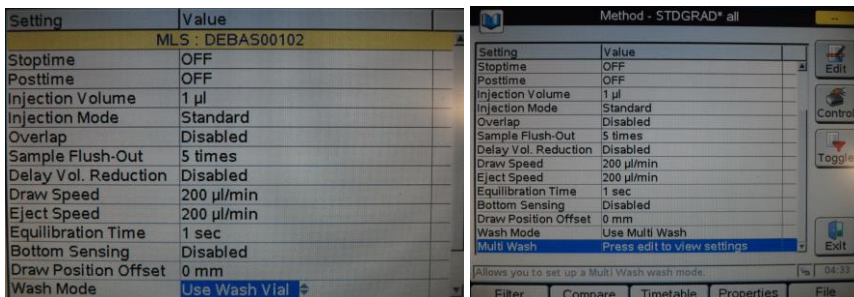
Note: For the OpenLab CDS LC driver A.02.11 or higher is required
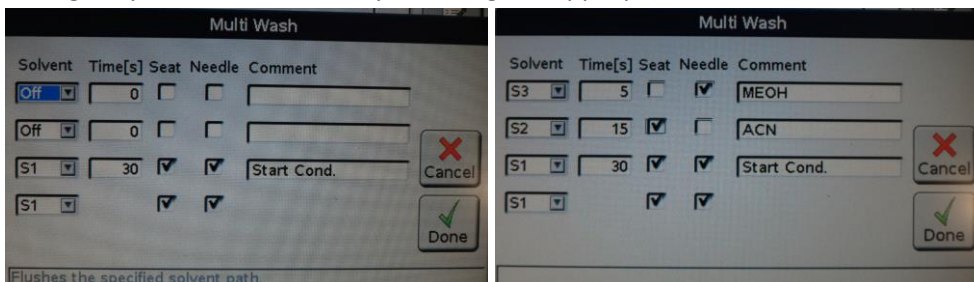
Control Module (G4208A) Configuration

1   Press Control and select Prime/Auto clean the tubing with appropriate wash solvent
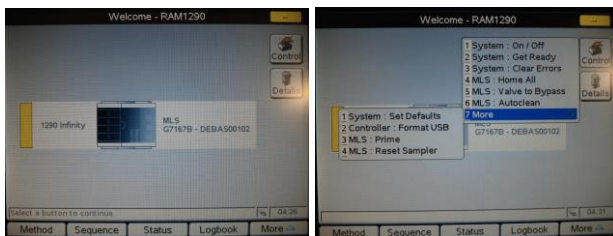
2   Press Method and select the multi-wash and configure your wash method.

3   Configure your wash method by selecting the appropriate wash solvents.

Note: For the Instant Pilot G4208A Firmware B.02.19 or higher is required