

Changing the 16-Pin Bayonet Cartridge

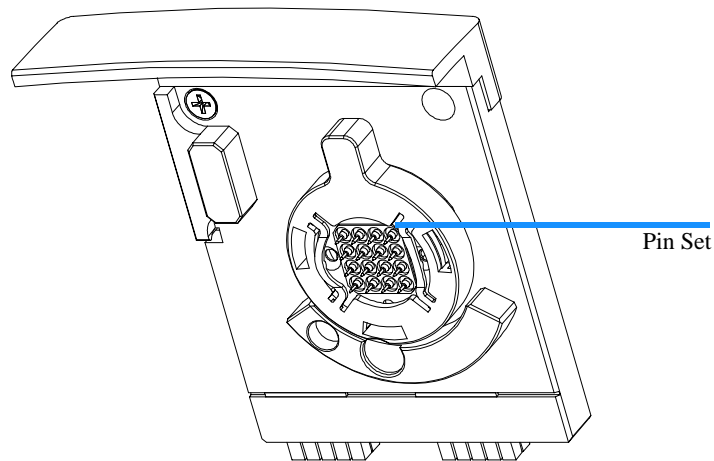
The 16-pin bayonet cartridge, see Figure 1, (reorder number 5065-4413) contains 16 electrodes. These are configured to fit in to the wells of a LabChip[®].

The electrodes make contact with the liquid in the wells when the lid of the Agilent 2100 bioanalyzer is closed.

The cartridge, which includes the pin set, can be removed if the electrodes become contaminated or damaged.

Figure 1

16-Pin Cartridge and Pin Set of Cartridge



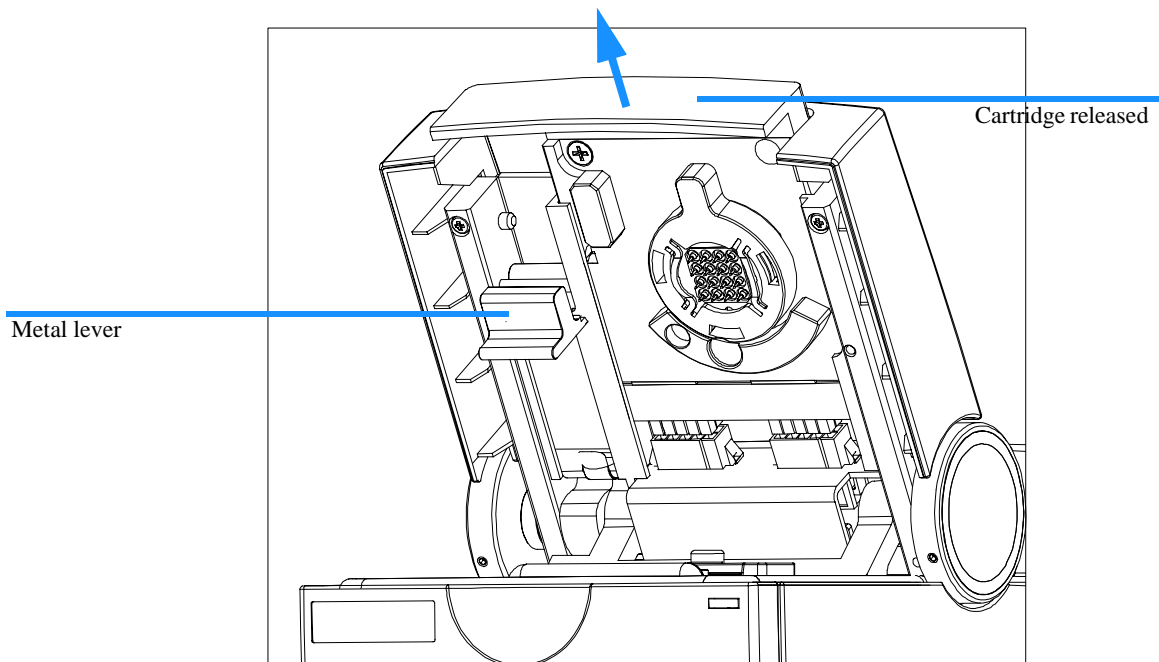
Removing the 16-Pin Cartridge

WARNING

Do not touch the electrodes while the cartridge is in the 2100 bioanalyzer—this could cause damage to the electrodes and high voltage power supplies.

- 1 Turn off line power to the 2100 bioanalyzer.
The line switch is located at the rear of the 2100 bioanalyzer.
- 2 Open the lid.
- 3 Pull the metal lever on the inside left of the lid to the vertical position as shown in Figure 2. When the lever is in the vertical position, the cartridge is released from the lid by about 10 mm.
- 4 Gently pull the cartridge out of the lid as shown Figure 2.

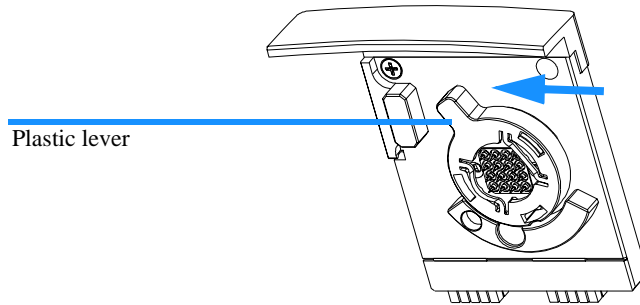
Figure 2 Removing the 16-Pin Cartridge



Removing the Pin Set of the 16-Pin Cartridge

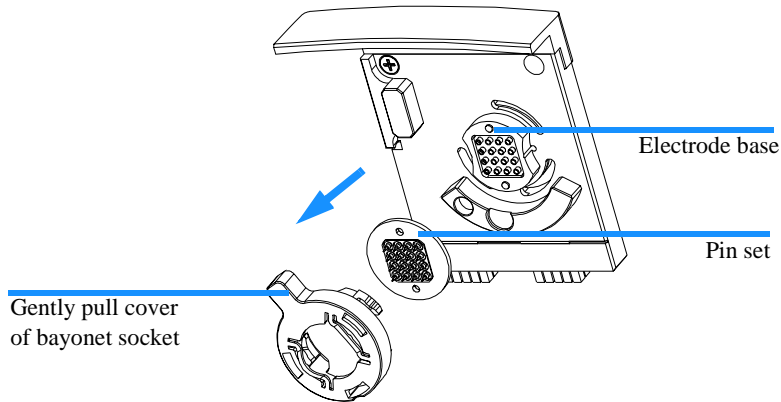
- 1 Remove the 16-pin cartridge as described above.
- 2 Open the bayonet socket of the pin set by turning the plastic lever to the left as described in Figure 3.

Figure 3 Opening the Bayonet Socket of the Pin Set



- 3 Remove the cover of the bayonet socket by gently pulling the plastic lever as shown in Figure 4. The pin set may stick to the electrode base. Remove it by carefully pulling it off. See Figure 4.

Figure 4 Releasing the Pin Set



NOTE

For hints on how to clean the pin set, refer to “Cleaning the Pin Set of the 16-pin Cartridge” on page 6.

Inserting the Pin Set of the 16-Pin Cartridge

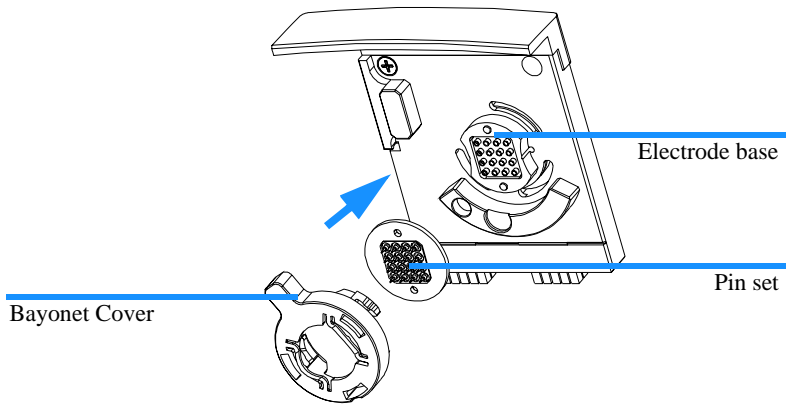
WARNING

Make sure that the pin set is completely dry before placing it back into the electrode base. Even small amounts of liquid on the pin set can damage the high voltage power supply.

- 1 Put the pin set on the cartridge base and the bayonet cover on the pin set. See Figure 5.

Figure 5

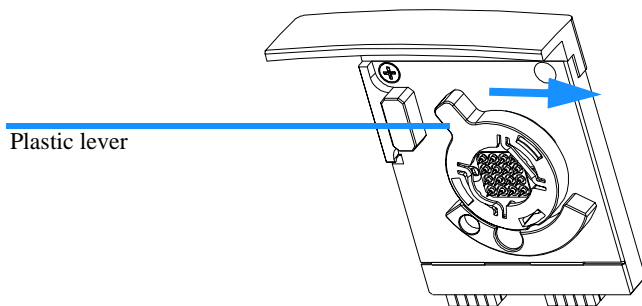
Inserting the Pin Set



- 2 Lock the pin set to the electrode base by pushing the plastic lever of the bayonet cover to the right as shown in Figure 6.

Figure 6

Closing the Socket of the Pin Set



Inserting the 16-Pin Cartridge

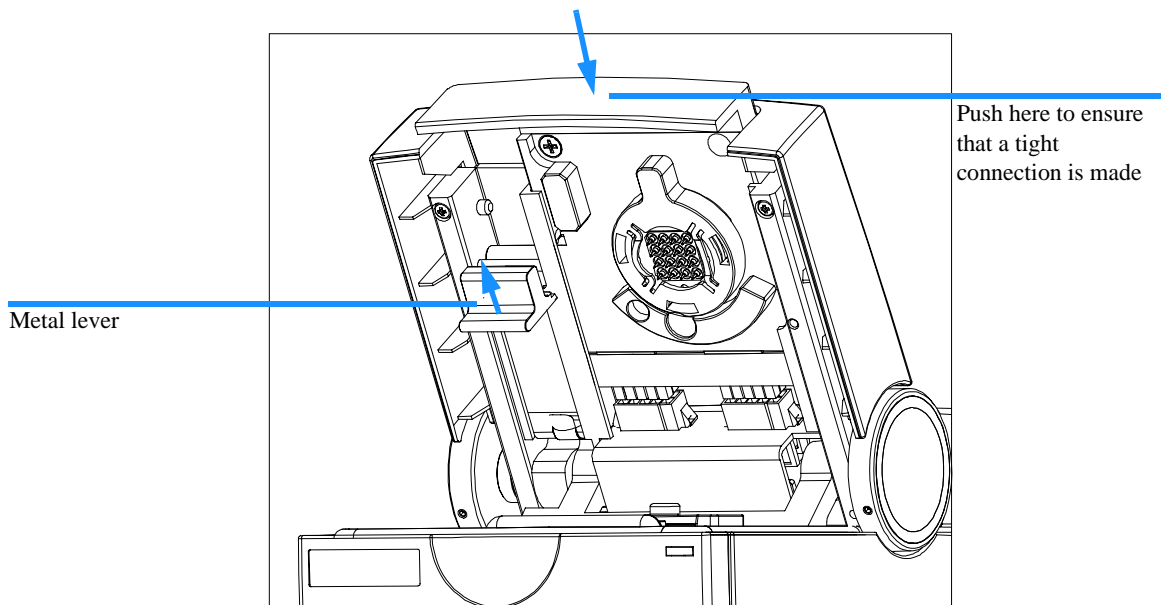
WARNING

Make sure the pin set is completely dry before putting in the 16-pin cartridge. Even small amounts of liquid on the pin set can damage the high voltage power supply of your instrument.

- 1 Slide the 16-pin cartridge into the bioanalyzer lid as shown in Figure 7.
- 2 Move the metal lever in the flat (closed) position.
- 3 Push the metal front of the 16-pin cartridge to ensure a tight connection to the 2100 bioanalyzer.

Figure 7

Inserting the 16-Pin Cartridge



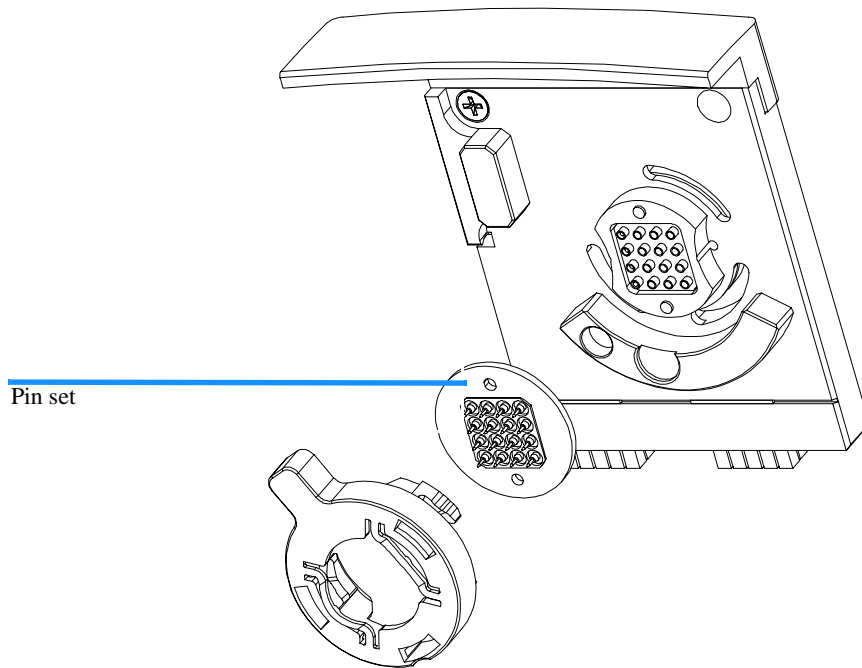
Cleaning the Pin Set of the 16-pin Cartridge

After removing the pin set from the 16-pin cartridge you can clean it by either using

- de-ionized water
 - isopropanol
- or
- RNase Zap

Figure 8

Pin Set



On a regular quarterly basis, or after contamination, gently clean the pin set with a lint-free surgical cotton swab damped in de-ionized water.

WARNING

**The pins of the pin set should not be bent or misaligned.
Both will lead to poor quality results or pre-terminated assay runs.**

Changing the 16-Pin Bayonet Cartridge

In case of highly contaminated or dirty pins you may autoclave the pin set.

NOTE

For autoclaving the pin set, follow your standard procedures for plastic material.

- 1 sonicate the pin set for 10 minutes
- 2 gently clean the pin set with a soft tooth brush

WARNING

Make sure that the pin set is completely dry before replacing it back into the electrode base. Even small amounts of liquid on the pin set can damage the high voltage power supply.

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