

Atellica Solution

Replacement of Parts Atellica Immunoassay (IM) Analyzer

Bulk Fluid Drawer

Document Version

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1.1 Preparation

1.1.1 General Information

Read this procedure in its entirety before starting the replacement.

The time to complete this procedure is 30 minutes.

For general safety information, refer to the Safety section of the Atellica Solution CB-DOC."

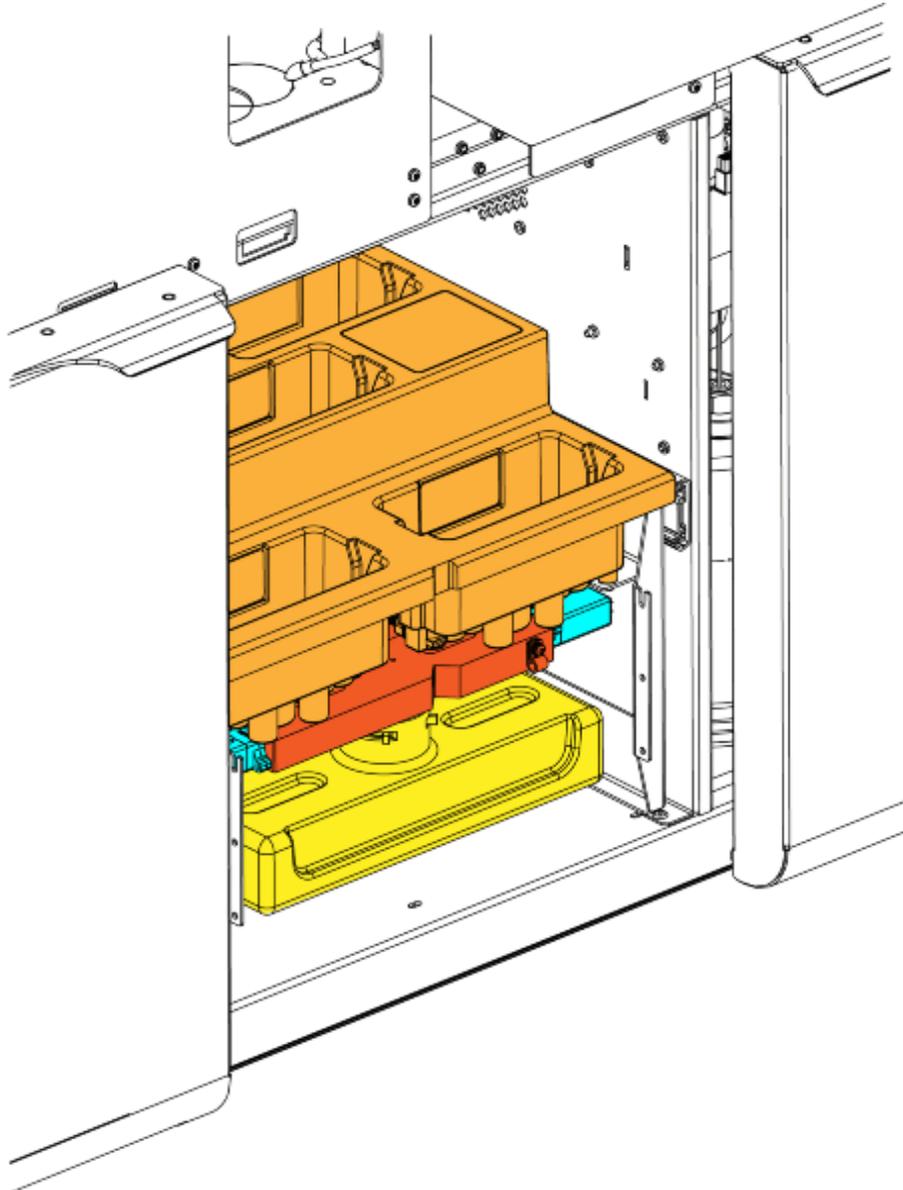
Fig. 1: Strong Magnetic Field / No Pacemakers Warning



1.1.2 Material Information

1.1.2.1 Parts

Fig. 2: Bulk Fluids Drawer



Refer to the 3D Parts Locator (→ Fluidics / LDAT-030.844.03) for component locations.

1.1.2.2 Tools and Supplies

- T20 Torx driver

- T10 Torx driver

1.2 Remove a Fluids Reservoir



For HTML versions of the document, there is a 3D animation of the procedure at the end of the steps



For this procedure, Removing the Base Reservoir is used as an example, but the steps are the same for removing the other reservoir fluids (Acid, IM Wash, and Cleaning).

1. Enter **Diagnostics** mode.
2. Run the sequence **S_MechOff_KeepMixingAndThermals**.
3. Prepare the bulk fluids drawer:
 - a) In the front of the analyzer, pull open the bottom, center drawer.
 - b) Tighten the cap for the appropriate fluid container.
 - c) Remove the fluid container and set it aside.
 - d) Pull the drawer out as far as it allows.
4. Identify the location of the bulk fluid reservoir that needs to be replaced.
5. Beneath the fluids drawer, remove the black clip from the reservoir.

6. Twist and pull the reservoir straight down.

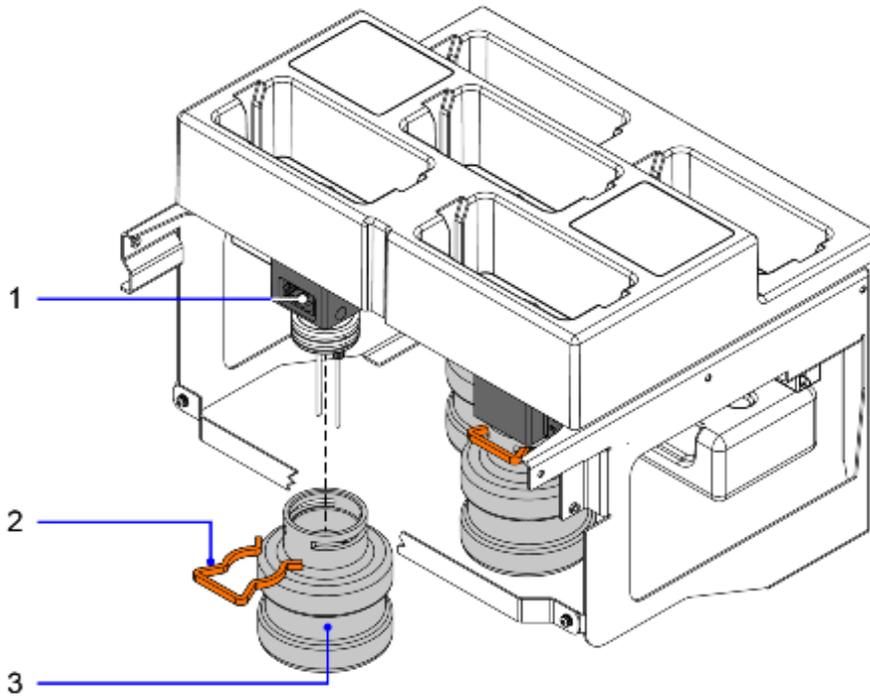


WARNING

Avoid bending the reservoir straws.

» Pull the reservoir straight down to avoid bending the reservoir straws.

Fig. 3: Removing the Base Reservoir



- (1) Base Manifold
- (2) Black Clip
- (3) Base Reservoir

1.3 Install a Fluids Reservoir



For this procedure, Installing the Base Reservoir is used as an example, but the steps are the same for installing the other reservoir fluids (Acid, IM Wash, and Cleaning).

1. In the front of the analyzer, pull open the bottom, center drawer.
2. Pull out the drawer as far as it allows.
3. Insert the reservoir into the manifold and twist into place.



WARNING

Avoid bending the reservoir straws.

- » Push the reservoir straight up to avoid bending the reservoir straws.



Make sure that the top of the reservoir is pressed all the way against the bottom of the reservoir manifold.

4. Fit the black clip on to the reservoir.
5. Replace the appropriate fluids container.
6. Loosen the cap by a quarter turn.

1.4 Final Work Steps

1. Run the sequence **S_ReinitializePostMechOff** or turn on Mechanics.
2. Once Mechanics are on, use the software UI to virtually replace the base bulk fluid bottle to get the bulk fluid bottle to fill the reservoir.



For an accurate software count, replace and start with a new, fresh base bottle.

3. Verify that the reservoir is installed correctly:
 - a) Confirm that the LED on the reservoir manifold eventually turns green, signifying that the reservoir is full.
 - b) Perform a visual inspection to make sure there are no leaks.
4. Perform the Post-Service Checklist for all the analyzers, DL, SH, and/or SHC that apply to this service visit:

Tab. 1 Post-Service Checklists and Instructions

	Instructions	Checklist
CH	(→ Post-Service Instructions / LDAT-010.836.01)	(→ Post-Service Checklist / LDAT-010.837.01)
DL	(→ Post-Service Instructions / LDAT-040.836.01)	(→ Post-Service Checklist / LDAT-040.837.01)
IM	(→ Post-Service Instructions / LDAT-030.836.02)	(→ Post-Service Protocol / LDAT-030.837.02)
SH	(→ Post-Service Instructions / LDAT-020.836.01)	(→ Post-Service Protocol / LDAT-020.837.01)
SHC	(→ Post-Service Instructions / LDAT-021.836.02)	(→ Post-Service Protocol / LDAT-021.837.02)



The recommended trend codes for this procedure are:

- Keyword 1: IM Fluidics
- Keyword 2: Water Reservoir
- Keyword 3: Waste Reservoir

These trend codes may not apply to every situation.

2.1 Preparation

2.1.1 General Information

Read this procedure in its entirety before starting the replacement.

The time to complete this procedure is 30 minutes.

For general safety information, refer to the Safety section of the Atellica Solution CB-DOC."

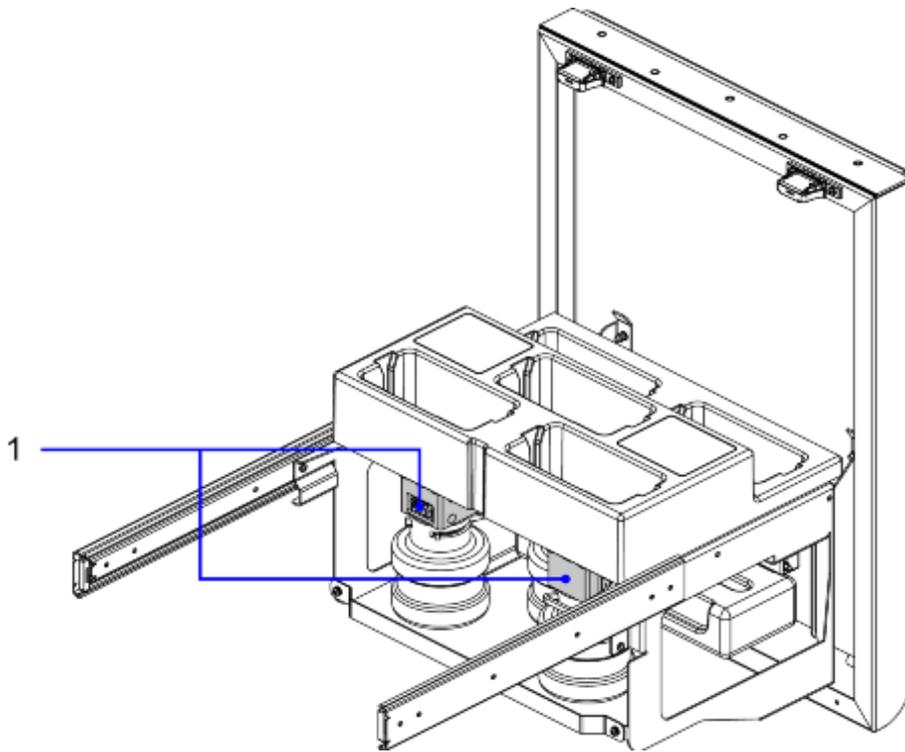
Fig. 4: Strong Magnetic Field / No Pacemakers Warning



2.1.2 Material Information

2.1.2.1 Parts

Fig. 5: Bulk Fluids Drawer



(1) Acid and Base Manifold Assemblies

Refer to the 3D Parts Locator (→ Fluidics / LDAT-030.844.03) for component locations.

2.1.2.2 Tools and Supplies

- T20 Torx driver
- T10 Torx driver

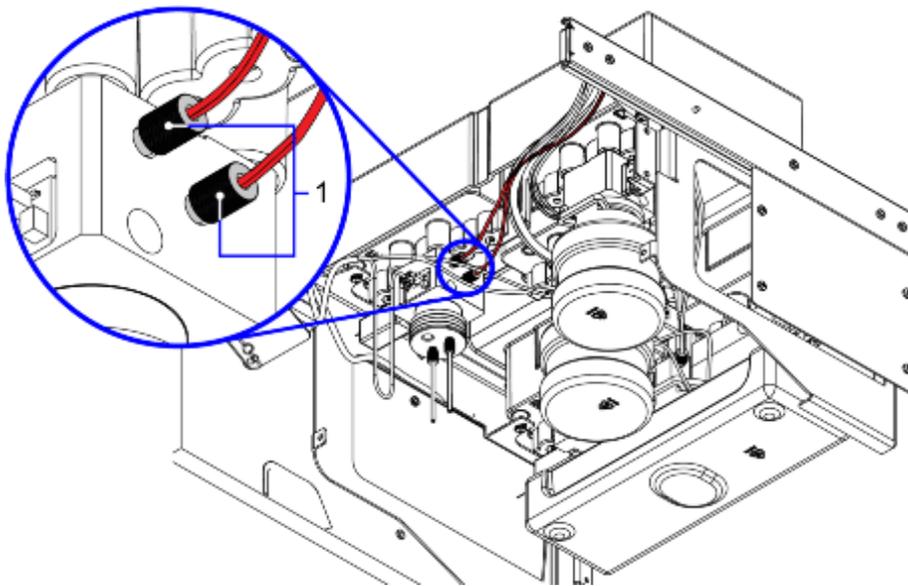
2.2 Remove a Fluids Manifold



For HTML versions of the document, there is a 3D animation of the procedure at the end of the steps.

1. Remove a fluids reservoir, (→ Remove a Fluids Reservoir / Page 7).
2. Remove 1 connector (PSE).
3. Remove the connector to the valve (PYE).
4. Disconnect the tubing by unfastening the two click and seal fittings on the manifold.

Fig. 6: Removing the Click and Seal Fittings on the Manifold



(1) 2 Click and Seal Fittings

5. Use a T20 Torx driver to remove 4 screws. Access these screws from the top of the drawer.

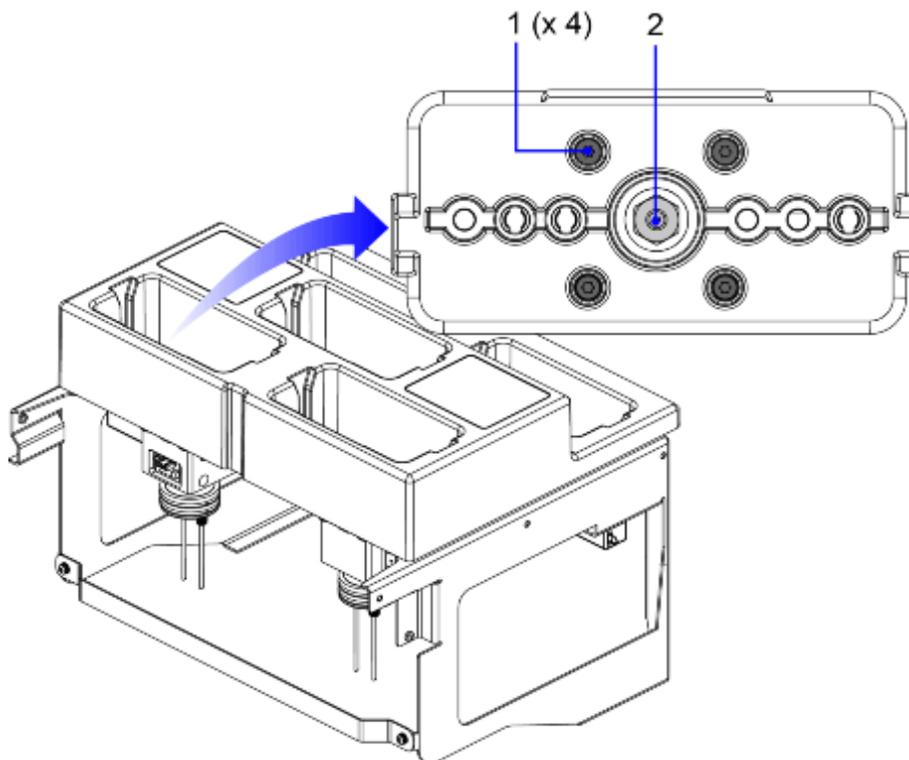
Remove the manifold from the top by lifting up.

⚠ CAUTION

The needle assembly is very sharp.

» Take extra care when working around the needle assembly.

Fig. 7: Removing the Base Manifold



(1) 4 Screws

(2) Needle Assembly



The manifold valve is part of the fluids manifold assembly. If you are replacing the entire assembly, you can skip this step for removing the valve.

Use a T10 Torx driver to remove 2 screws to remove the manifold valve.

2.2.1 Remove the Wash 1 Manifold



When removing the Wash 1 manifold, the process is slightly different.

1. Remove both Wash 1 bottles.
2. Remove 2 screws from each wash 1 slot.
3. Do not let the reservoir manifold drop because the straws may get bent.

2.3 Install a Fluids Manifold



The manifold valve is part of the fluids manifold assembly. If you are replacing the entire assembly, you can skip this step for installing the valve.

- Use a T10 Torx driver to tighten 2 screws for the manifold valve.
2. Place the manifold beneath the drawer.
 3. Use a T20 Torx driver to tighten 4 screws from the top of the drawer.
 4. Connect the PYE connector valve.
 5. Connect the PSE connector.
 6. Install a fluids reservoir, (→ Install a Fluids Reservoir / Page 9).

2.4 Final Work Steps

1. Run the sequence **S_ReinitializePostMechOff** or turn on Mechanics.
2. Once Mechanics are on, use the software UI to virtually replace the base bulk fluid bottle to get the bulk fluid bottle to fill the reservoir.



For an accurate software count, replace and start with a new, fresh base bottle.

3. Verify that the reservoir is installed correctly:
 - a) Confirm that the LED on the reservoir manifold eventually turns green, signifying that the reservoir is full.
 - b) Perform a visual inspection to make sure there are no leaks.
4. Perform the Post-Service Checklist for all the analyzers, DL, SH, and/or SHC that apply to this service visit:

Tab. 2 Post-Service Checklists and Instructions

	Instructions	Checklist
CH	(→ Post-Service Instructions / LDAT-010.836.01)	(→ Post-Service Checklist / LDAT-010.837.01)
DL	(→ Post-Service Instructions / LDAT-040.836.01)	(→ Post-Service Checklist / LDAT-040.837.01)
IM	(→ Post-Service Instructions / LDAT-030.836.02)	(→ Post-Service Protocol / LDAT-030.837.02)
SH	(→ Post-Service Instructions / LDAT-020.836.01)	(→ Post-Service Protocol / LDAT-020.837.01)
SHC	(→ Post-Service Instructions / LDAT-021.836.02)	(→ Post-Service Protocol / LDAT-021.837.02)



The recommended trend codes for this procedure are:

- Keyword 1: IM Fluidics
- Keyword 2: Manifold RP

These trend codes may not apply to every situation.

3.1 Preparation

3.1.1 General Information

Read this procedure in its entirety before starting the replacement.

The time to complete this procedure is 15 minutes.

For general safety information, refer to the Safety section of the Atellica Solution CB-DOC.

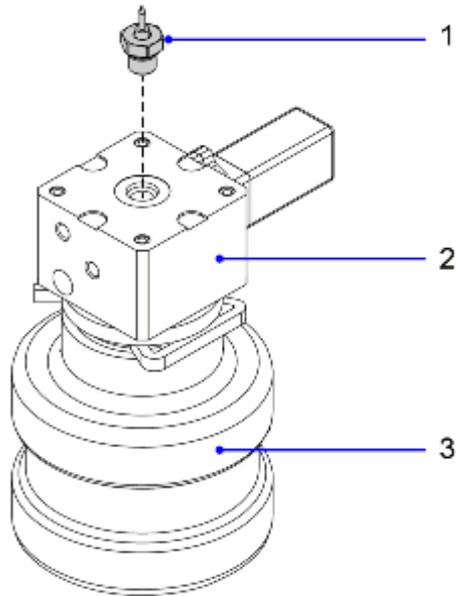
Fig. 8: Strong Magnetic Field / No Pacemakers Warning



3.1.2 Material Information

3.1.2.1 Parts

Fig. 9: Base Manifold Assembly



- (1) Needle Assembly
- (2) Base Manifold
- (3) Base Reservoir

Refer to the 3D Parts Locator (→ Fluidics / LDAT-030.844.03) for component locations.

3.1.2.2 Tools and Supplies

14mm Nut Driver

3.2 Removal



CAUTION

The needle is very sharp.

- » Take caution when removing the needle.

1. Enter **Diagnostics** mode.
2. Remove the bulk fluid bottle.
3. From the top of the fluids drawer, use a 14mm nut driver to loosen the needle assembly.
4. Remove the needle.

3.3 Installation



CAUTION

The needle is very sharp.

- » Take caution when removing the needle.

1. Place the needle into the opening on the top of the fluids drawer.
2. Use a 14mm nut driver to tighten the needle assembly.
3. Put the bulk fluid bottle back into place.

3.4 Final Work Steps

1. After installing the bulk fluid bottle, wait 3 minutes. After 3 minutes, lift the bottle and make sure that there is no leakage from the needle assembly.
2. Perform the Post-Service Checklist for all the analyzers, DL, SH, and/or SHC that apply to this service visit:

Tab. 3 Post-Service Checklists and Instructions

	Instructions	Checklist
CH	(→ Post-Service Instructions / LDAT-010.836.01)	(→ Post-Service Checklist / LDAT-010.837.01)
DL	(→ Post-Service Instructions / LDAT-040.836.01)	(→ Post-Service Checklist / LDAT-040.837.01)
IM	(→ Post-Service Instructions / LDAT-030.836.02)	(→ Post-Service Protocol / LDAT-030.837.02)
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SHC	(→ Post-Service Instructions / LDAT-021.836.02)	(→ Post-Service Protocol / LDAT-021.837.02)



The recommended trend codes for this procedure are:

- Keyword 1: IM Fluidics
- Keyword 2: Manifold RP

These trend codes may not apply to every situation.

4.1 Version 04

Changed a warning in the "Install a Fluids Reservoir" section to be relevant for installation, (→ Install a Fluids Reservoir / Page 9).

4.2 Version 03

Added animations to "Remove a Fluids Reservoir" (→ Remove a Fluids Reservoir / Page 7) and "Remove a Fluids Manifold" (→ Remove a Fluids Manifold / Page 13).

4.3 Version 02

Initial publication to CB-DOC.

There are no Hazard IDs in this document.

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