For Training Purposes Only
These job aids are shortened versions of the procedures found in the source below. The procedures are written as standalone procedures to ensure they can be performed in any order. Information in the job aid is correct as of the date published. Verify you have the correct information.

Source: AU480® Chemistry Analyzer Users Guide Vol. 2
PN ZM0480V2 (November 2009)
# Document Disclaimers

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This document is not intended to replace the information in your User’s Guide, Quick Response Guide or other product documentation. Information in the User’s Guide and Quick Response Guide supersedes information in any other manual.

**Warnings and Precautions**

Read all product manuals and consult with Beckman Coulter trained personnel before attempting to operate the instrument.

Beckman Coulter, Inc. urges its customers and employees to comply with all national health and safety standards such as the use of barrier protection. This may include but is not limited to, protective eyewear, gloves, suitable laboratory attire when operating or maintaining this or any other automated laboratory equipment.

**Intention for Use**

This document is not intended to replace the information in your Instrument Instructions for Use Manual (IFU), User’s Guide and Quick Response Guide. Information in the User’s Guide supersedes information in any other manual.

**Revision Status**

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**Trademarks**

AU480® Chemistry Analyzer
Clean the Sample Probe and Reagent Probe Wash Wells

Ensure the system is in **Standby** Mode

Open the main cover

From the Home screen, select the **Analyzer Maintenance** jump button

Place a ✓ in the **Analyzer Maintenance** check box

Select **Cleaning Wash Tank**, select **OK**

Press the green **TABLE ROTATION** **DIAG** button to move the probes away from the wash wells

Use a transfer pipette to dispense 10% bleach solution into each wash well. Avoid splashing and clean up spills immediately

Use a separate cotton swab to clean each wash well.

Press the green **TABLE ROTATION** **DIAG** button to move the probes to the wash wells

Select **Prime Washing-line**, select **OK**. Press the green **TABLE ROTATION** **DIAG** button to prime the wash wells. Inspect the wash wells for proper drainage

Document you completed the procedure on the paper maintenance log

Close the main cover

Deselect the **Analyzer Maintenance** check box

**Are wash wells draining?**

**Yes**

**No**
Clean the Mix Bar Wash Wells

Ensure the system is in Standby Mode

Open the main cover

Manually turn the mix bar unit so the mix bars are away from the wash wells

Use a transfer pipette to dispense 10% bleach solution into each wash well. Avoid splashing and clean up spills immediately

Use a separate cotton swab to clean each wash well

Manually turn the mix bar unit so the mix bars are over the wash wells

From the Home screen, select the Analyzer Maintenance jump button

Place a ✓ in the Analyzer Maintenance check box

Select Replacing Mixing Bar, select OK (leave the default number of primes)

Press the green TABLE ROTATION DIAG button to rinse the wash wells with DI water

Close the main cover

Document you completed the procedure on the paper maintenance log

Supplies Required:
- Cotton swabs
- Disposable transfer pipette
- 10% Bleach (Sodium hypochlorite solution with 0.5% effective chlorine concentration. Prepare by adding 10 parts bleach to 90 parts DI water)
Clean the Wash Nozzle Unit and Check the Tube Mounting Joints

Ensure the system is in **Standby** Mode

Open the main cover

From the Home screen, select the **Analyzer Maintenance** jump button

Place a ✓ in the **Analyzer Maintenance** check box

Select **Replacing Wash Nozzle**, select **OK**

Press the green **TABLE ROTATION/DIAG** button to drain the liquid from the wash nozzle tubing

Open the rear cover

Loosen the 4 grey manifolds and remove them from their mounting positions. Inspect the 6 o-rings in the water supply manifold and verify all o-rings are present, not worn (over stretched), or torn and that the area is free of dust or detergent crystals. Clean or replace any o-ring if necessary

Loosen the silver knob holding the wash nozzle unit and lift the wash nozzle unit up over the positioning screws

Remove the wash nozzle unit along with tubing and inspect the joints (flexible tubing joining the metal nozzle to the tubing) for cracks. Replace any joints as necessary

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**Supplies Required:**
- Dry clean cloth or paper towel
- Sonicator with DI water

**Always drain the fluid from the wash nozzle before removing the tubing to avoid spills in the cuvette wheel**
Inspect and clean the wash nozzle unit by placing it in a sonicator filled with DI water for 15 minutes. Only the nozzles need to be submerged. Do not wet or place the springs in the DI water. If the springs get wet, wipe them with a dry clean lint free cloth.

Remove the wash nozzle unit from the sonicator and dry thoroughly with a dry clean lint free cloth.

Inspect the packing (thin ring) for each manifold to ensure it is not worn or damaged. Install each manifold using the color coded positions for proper placement. Tighten the manifolds finger tight to prevent cuvette overflow but do not over-tighten.

Install the wash nozzle unit by placing it over the positioning screws and tighten the silver screw to hold it in place.

Select **Prime Wash Nozzle**, for **Times** enter 5, select **OK**.

Press the green **TABLE ROTATION/DIAG** button. Verify the wash nozzle unit moves up and down without interference and that there are no leaks.

Deselect the **Analyzer Maintenance** check box.

Close the rear and main covers.

Document you completed the procedure on the paper maintenance log.

**Note:** A sonicator is recommended for cleaning the nozzles but if one is not available, clean the nozzles with the supplied styllet and DI water.
Clean the DI Water Tank, DI Filter and Sample Probe Filter

Supplies Required:
- Dry clean lint free cloth
- Basin
- 20% Bleach (Sodium hypochlorite solution with 0.5% effective chlorine concentration. Prepare by adding 20 parts bleach to 80 parts DI water)
- DI water tank filled with 5 L of DI water
- Sonicator with DI water

Ensure the system is in Standby. From the Home screen, select the End Process button

Open the front left door on the analyzer

Place a basin on the floor in front of the DI Water tank to catch spilled water

Disconnect the float sensor connector #868

Press the grey quick disconnect joint on the front of the tank, remove the tubing from the front of the tank

Pull the DI water tank forward and pull out the tubings from the top of the tank. Wrap the tubings with a dry clean lint-free cloth (1 tube has the DI water filter attached)

Pull the DI water tank out of the analyzer. Unscrew and remove the float sensor from the DI water tank, wipe the float sensor with DI water, then wipe the float sensor dry with a dry clean lint free cloth. Install the float sensor in the spare DI water tank containing 5 L of DI water

Discard the DI water from the tank you removed from the analyzer and rinse the tank with the 20% bleach solution. Rinse the tank thoroughly with DI water and allow to dry

Locate the filter on the DI water supply tubing removed from the tank. Position the tubing over the basin and unscrew the filter case, remove the filter and allow the water to drip

Be sure to remove the float sensor connector to prevent water from pouring out of the DI water tubing

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Remove the sample probe filter case from the bracket located directly to the left of the DI water tank. Press the grey quick disconnect joints on the top and the bottom, remove tubes, and pull the sample probe filter case forward.

Unscrew the filter case over the basin, remove the filter and allow the water to drip. Do not lose the o-ring and the filter positioning insert. Note the orientation of the filter positioning insert for reinstallation.

Place the DI water filter and the sample probe filter in a sonicator filled with DI water for 10 minutes.

Insert the DI water filter into the case on the DI water supply tubing and tighten the case cap. Sample probe and DI water supply filters are interchangeable.

Insert the sample probe filter into the case ensuring the o-ring is installed and the filter positioning insert is oriented inside the filter, tighten the case.

Ensure the top of the case is oriented correctly. Reconnect the grey quick disconnect joints at the top and bottom of the filter case. Listen for a distinct click to ensure proper installation. Place the sample probe filter back into the bracket.

Place all the water supply tubes into the top of the DI water tank containing 5 L of DI water. Push the tank into place. Reconnect the grey quick disconnect joint on the front of the tank by listening for a distinct click to ensure proper installation.

Reconnect the float sensor connector labeled #668.

Wipe up any spills and remove the basin.

Press the green ON button. At the Data Index window, make the appropriate index selection, select OK.

When the system is in Warmup mode, select the Analyzer Maintenance jump button.

Place a ✔ in the Analyzer Maintenance check box.

Select Prime Washing-line, at Times, enter 3, select OK.

Press the green TABLE ROTATION/DIAG button and watch the prime. Repeat the prime by pressing the green TABLE ROTATION/DIAG button until all bubbles are removed from the DI water supply line.

Close the door. Deselect the Analyzer Maintenance check box.

Document you completed the procedure on the paper maintenance log.