SERVICE PROCEDURES

WASH MANIFOLD REPLACEMENT

The MAGO® Plus/APTUS® wash manifold is a one-piece unit that performs the wash function during the test procedure. It consists of sixteen separate pins – eight for draining the wells and eight for filling. In the event that the manifold needs to be changed, the procedure is very simple.

I TOOLS NEEDED

1. #3 Allen wrench (provided with the manifold).
2. Pencil.
3. A full plate of blank or pre-used wells.

II PROCEDURE – PLEASE READ ALL STEPS BEFORE PROCEEDING

1. Ensure the instrument is powered OFF.
2. Remove the Reagent Rack.
3. Gently lift the probe and manifold and move the XYZ arm towards the front of the instrument.
4. With a pencil, draw a line across the top of the manifold so that the replacement can be correctly oriented (as shown in Figure 1).
5. Using the #3 Allen wrench, remove the two screws securing the manifold to the mounting plate (as shown with white arrows in Figure 1).

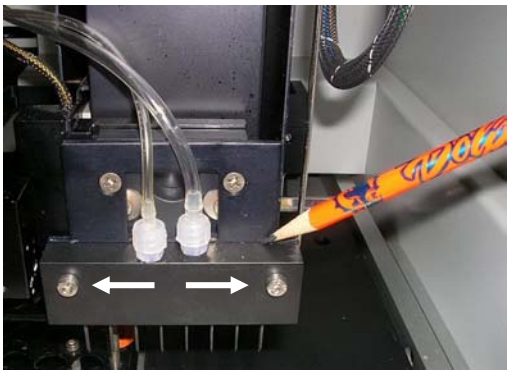

Figure 1

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WASH MANIFOLD REPLACEMENT (continued)

6. Mark the tubing on top of the manifold so that both pieces will be replaced correctly. Remove the two Quick Disconnects from the top of the manifold.
7. Refit the two Quick Disconnects to the new manifold, ensuring correct replacement as noted in step 6.
8. Refit the new manifold to the mounting plate using the two screws removed in step 5, ensuring that the shorter pins are facing to the front. *Note: before tightening the two screws down, ensure the top of the manifold is aligned with the pencil mark drawn in step 4.*
9. Proceed to Section III – Wash Manifold Test

III Wash Manifold Test

After replacing the manifold using the procedure above, perform the following steps to ensure the correct placement/operation of the new manifold.

1. Power instrument ON. *Note: it is not necessary to return the XYZ arm – it will "home" when the instrument is powered on.*
2. Ensure there is wash buffer/distilled water in Wash Bottle 1 (blue cap).
3. Ensure all bottle caps are tight on each of the four bottles.
4. Place a full tray of blank wells in the Plate A holder.
5. Access the Wash Plate test function from Main Menu → Manual Mode → Wash Plate.
6. Ensure Wash 1 and strips 1 to 12 are selected.
7. Press Enter – the instrument will wash and dry each of the twelve strips in the Plate A holder. Watch carefully to ensure that each well in each row is filled correctly.
8. Once the test is completed, remove and inspect the plate to ensure that each well has been fully dried.
9. If not fully dried, please contact our Instrument Technical Service at (800) 327-4565.