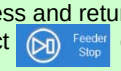
# DxC 700 AU Daily Startup Using the STAT Table with Automation

**Note:**
Take appropriate steps at your connected automation computer to **Pause** sample loading to the DxC 700 AU.

START HERE

## ✓ Place DxC 700 AU in *STANDBY*

1. Wait for sample tubes queued in the DxC 700 AU DTS connection module to process and return to the main track
2. Select  on the DxC 700 AU.

   The analyzer mode transitions from *MEASURE 1* to *MEASURE 2* to *STANDBY*

## ✓Set a New Index

1. Select **HOME > Create Index (F1)**
2. Select **New Index**
3. Select the **Group of Tests** for processing
4. Select **OK**

## ✓Change the Operator

1. From **HOME > Change Operator (F2)**
2. For **Operator Name**, enter initials, enter name or select the **Select** button to choose an operator from the list
3. Select **OK**

## ✓Perform Daily Analyzer Inspections and Preparations

1. Inspect syringes for cracks, leaks, or condensation
2. Inspect wash solution roller pump tubing for cracks or leaks
3. Inspect the sample probe, reagent probes, and mix bars
   - Inspect and clean the probes and mix bars
     - Confirm that probes are not bent or damaged
     - Confirm that mix bars are not bent, scratched, or chipped
     - Wipe probes and mix bars with 70% isopropyl alcohol if contaminants or crystallization observed
   - Confirm proper operation
     - Select **MAINT. > Analyzer Maintenance > Maintenance**
     - Select the **Analyzer Maintenance** box
     - Select **Prime Washing Line,** confirm **Times** is set to 1, select **OK**
     - Press the **green DIAG/TABLE ROTATION** button to prime
       - Confirm each probe dispenses a thin straight stream of water and water flows in the wash wells
       - Confirm that the mix bars align correctly in the wash wells during rotation of mix bar components
       - Repeat as required to inspect all probes and mix bars
     - Clear the **Analyzer Maintenance** box
4. Replace the Deionized water or Diluent in the pre-dilution bottle labeled **61.Diluent/W2**
5. Replace the sample probe wash solutions labeled **64.Det.-1** and **65. Det.-2**
   - for normal volume analysis fill both bottles with 2% wash solution
   - for labs with high volume analysis fill **64.Det-1** with 2 % wash solution and fill **65.Det-2** with 1% NaClO (20% bleach)
6. (Labs using contamination parameters) replace the cleaning solutions outside the reagent refrigerators labeled **62.CLN-1**, **63.CLN-2**, **49. CLN-1**, and **50. CLN-2** with lab specific solutions
7. Update the Maintenance Log for all the procedures you performed
   - From **Analyzer Maintenance > Maintenance**
   - Select each procedure you performed (highlights in blue)
   - Select **Update**

## ✓ Monitor the Reagent Status

1. Select **REAGENT > Reagent Management > Details**
   Confirm the reagents meet the daily requirements set for your lab.
   For each sample type processed in your lab:
   - Review the **Number of Tests** column
   - Review the **Onboard Remaining** column
   - Review the **Expiration** column
2. Replace and/or add reagent bottles based on volume and expiration criteria for your lab
   - Lift and remove the reagent refrigerator covers
   - Remove required reagent bottles
   - Place new reagents bottles into available positions and secure with partitions and adapters as needed
   - Place non bar coded reagents bottles into fixed positions assigned in the **Details** tab
   - Replace the reagent refrigerator covers
3. Perform a reagent check
   - Select **Reagent Check (F5)**
   - Select **Check All Positions**
   - Select **Start**
4. View the **Main** and **Details** tabs to confirm status of onboard reagents meet the daily requirements for your lab

## ✓Inspect the Analyzer Status

1. Select **HOME** (Analyzer Status)
2. Confirm that system components are within acceptable limits (shaded green)
3. Investigate any yellow or red conditions

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### ✓Perform the ISE Startup (for labs with an ISE Module)

1. Inspect the ISE reagents, and replace reagents that will expire onboard remaining or have a volume below daily requirements
   - Select **REAGENT > Reagent Management > ISE**
   - To replace a reagent:
     - Select the ISE reagent to replace > select **Replace ISE Reagent (F1)**
     - Confirm the ISE operation LED is off
     - Scan the bar code label on the bottle with the hand scanner or type in the lot number and expiration date
     - Replace the reagent bottle and select **OK**
     - Select **ISE Maintenance > s**elect the **ISE Maintenance** box
       - If ISE Buffer Solution is replaced, select **Buffer Prime >** select **OK**
       - If ISE MID Standard or ISE Reference Solution is replaced, select **MID/REF Prime >** select **OK**
       - Press the **green DIAG/TABLE ROTATION** button to start the prime
     - Clear the **ISE Maintenance** box when the prime is complete
2. Clean the ISE
   - Select **MAINT. > ISE Maintenance > Maintenance**
   - Fill a Hitachi cup with 1 mL of ISE Cleaning Solution and place the cup in the **CLEAN** position on the STAT table
   - Select **Cleaning,** select **OK** to begin the clean
   - When cleaning is complete, remove and discard the Hitachi cup
3. Perform a Total Prime if calibrating immediately following an ISE Clean
   - Select **MAINT. > ISE Maintenance > Maintenance >** select the **ISE Maintenance** box
   - Select **Total Prime,** select **OK**
   - Press the **green DIAG/TABLE ROTATION** button to start the prime
   - Clear the **ISE Maintenance** box when the prime is complete
4. Calibrate the ISE
   - Place Hitachi cups filled with approximately 500 µL of the required ISE Serum and/or Urine Standards into the **S-L**, **S-H**, **U-L**, and **U-H** positions of the STAT table
   - Select **Calibration** tab from ISE Maintenance
   - Select **Serum Start**, **Urine Start**, or **Serum/Urine Start,** select **OK** to begin the ISE calibration
   - When the calibration is complete, confirm the results are within the Slope and MID Factor ranges for serum and/or urine
   - Remove and discard the Hitachi cups
5. Remove the Operator Name: Select **HOME > Change Operator (F2),** remove name or initials, select **OK**

### ✓Order Calibrations and QC

1. Select **STAT > STAT (Calibration)**
   - In **Type**, select the sample type
   - Select **Auto CAL/QC Order (F4)**. From the STAT (Calibration) dialog, select **OK**. The system displays the reagent blank and calibrators ordered in blue. Confirm the ordered tests are correct
   - Select **Type**, to verify orders of all sample types in use
2. Select the **STAT (QC)** button
   - In **Type,** select the sample type
   - Select **Select All Tests (F5),** select individual tests or select **Panel** to select a panel, and then select **OK**
   - Repeat for each sample type in use
5. Select **Save (F2)**
6. Select **CAL/QC Position (F7)**

### ✓Prepare Reagent Blank, Calibrators and QC

Use the CAL/QC Position list to prepare the required reagent blank, calibrator and/or QC samples.
Use the list to ensure you use the correct bar coded tubes and required volume
(dead volume of the specific container is not included) for each sample. Select **Close**

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## ✓Load RB/CAL/QC on the STAT Table

**Note**: The reagent blank, calibrators and QC can be loaded on the STAT table by opening the small STAT table cover or removing the large STAT table cover. If there are more than 22 calibrator and/or QC samples required in the run, load the additional calibrator and QC samples by removing and replacing the calibrators and QC using the same STAT table or by removing and replacing the entire STAT table with another prepared STAT table.

- Load the calibrators and/or control samples (maximum of 22) with the bar codes facing out into the STAT table. Calibrators must be loaded before QC. The reagent blank must be loaded in the **RB1** position
- Select STAT Start from the action button area

Is this the last load of calibrators and/or QC samples?

Yes

- From the STAT Start dialog, review errors on the Error List and perform any corrective actions, if necessary
- Select the **Last Table** box in the STAT Start dialog
- Select **Start**

When the STAT TABLE ROTATION LED stops blinking the aspiration is complete. There will be an audible event displayed stating aspiration is complete. Remove all the calibrator and/or QC samples

No

- From the STAT Start dialog, review errors on the Error List and perform any corrective actions, if necessary
- Select **Start**

- When the STAT TABLE ROTATION LED stops blinking, add more calibrators and/or QC samples
- Select STAT Start from the action button area

## ✓Review RB/CAL/QC Results

1. Review the reagent blank, calibration, and QC reports for flags. Take appropriate actions based on flags
2. Verify reagent blank and calibration meet lab requirements. **MENU > Calibration > Calibration Monitor > Status**, select **Reagent Blank** or **Calibration** column for the desired test
3. Verify QC results meet lab requirements. **QC > Main** tab (all tests are selected by default) **> Chart View**. Review QC test results as required

**Note:**
Take appropriate steps at your connected automation computer to **Resume** sample loading to the DxC 700 AU.