Power Link Troubleshooting Job Aid

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For Training Purposes Only

These job aids are shortened versions of the procedures found in the sources below. Information in the job aid is correct as of the date published. Verify you have the correct information.

Source:
- Power Link Instructions for Use P/N B15239AA (August 2012)
- AU680 Quick Response Guide P/N B06655AA (April 2011)
- DxI Instructions for Use P/N 387261M (August 2011)
This document is not intended to replace the information in your AU680 User’s Guide, AU680 Quick Response Guide, and Power Link Instructions for Use Manual, DxI Instructions for Use Manual or DxI Online help.


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.

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

Rev. A (September, 2013)

Software version Power Link 1.00-R03
Software version AU680 3.70
Software version DxI 600 4.4
Software version DxI 800 4.4

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General Recovery

Use the flowchart below to identify and resolve an error on the Power Link.
# Alpha Codes

Use the following table when evaluating alpha codes:

<table>
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<th>Code</th>
<th>Description</th>
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<td>AS</td>
<td>Sensor on the pneumatic device that confirms the position of a component such as the gripper, stoppers, gripper arm, etc.</td>
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| BR   | Barcode reader scans the tube’s barcode ID to decide how to handle the tube at the following locations:  
  **Inlet/Outlet Module:**  
  BR01: Identifies Sample ID of tube on conveyor  
  BR03: Identifies if AU680 tests are required  
  BR04: Verifies Sample ID of tube before AU aspiration  
  BR02: Verifies Sample ID of tube before transfer to Outlet  
  **Decapper-DxI Module:**  
  BR01: Identifies if DxI tests are required  
  BR02: Verifies Sample ID of tube before DxI aspiration |
| PM   | Motor that controls the movement of a gripper arm (or transfer arm) assembly. PM errors can be caused by an obstruction along the way as the arm assembly moves, an improper movement, or by the motor itself. |
| SL   | Pneumatic devices that use air to move an assembly or component: in and out, back and forth, or up and down. These devices move stoppers, tube grippers, decapper tube clamps, cap grippers, cap disposal, tube spinner rollers, tube pick up, etc. |
| SN   | Sensor that detects rack, sample tube carrier, tube in the carrier, cap presence, or door closure. |
AU680 Connection Module Special Error Code Recovery

Select Alarm on the Operation Panel to silence the audible alarm

Select Resume

Problem resolved

Yes

Select Alarm on the Operation Panel to silence the audible alarm

Is the error one of the following AU680 Special Error Codes?
- AU TIM-1, AU RET-1, AU TIM-2, AU RET-2
- AU TIM-3, AU RET-3, AU STA-4, AU RET-9
- AU ANL-5, AU STA-5, AU SM-7, AU ERR-7
- AU D1-8, AU ID2-8

No

Select Alarm on the Operation Panel to silence the audible alarm

Is the error one of the following AU680 Special Error Codes?
- AU TIM-1, AU RET-1, AU TIM-2, AU RET-2
- AU TIM-3, AU RET-3, AU STA-4, AU RET-9
- AU ANL-5, AU STA-5, AU SM-7, AU ERR-7
- AU D1-8, AU ID2-8

No

Locate the Error Code table for the Unit where the error occurred

Locate the Error Code alpha prefix and number in the Error Code column of the Error Code Table

Review the description of the problem for the error code

Perform the solution for the error code

Yes

Is the AU sample probe in contact with a sample label?

Select Feeder Stop at the AU680 to remove the sample probes from the tube (The AU650 will transition to Measure 2 then Standby)

Select the Auto button on the Operation Panel

Select OK at the dialog box to change the mode to Manual
Note: If the unit will not switch to manual, select Force Mode Change

Select Bypass at the Operation Panel to bypass the tubes at the AU680 unit

When there are no other tubes left at the AU680 Unit, Select Bypass at the Operation Panel to end the Bypass mode

A specific condition error exists on the AU650 system. Correct the AU650 error or *Disable the AU680 if unable to correct the error

Follow your laboratory practice to rerun tubes in the outlet rack that have the status bypassed

Select Alarm on the Operation Panel to return the Inlet/Outlet-AU680 unit to Auto Mode

Select OK

Select Start on the AU680 to return the AU650 to Measure 1

No

Continue normal processing
Jammed Sample Tube Carrier Recovery

1. Select Alarm at the Operational Panel
2. At the Operational Panel identify the Error Code and Unit location
3. Move the tube carrier forward or backward on the track until the carrier clicks free
4. Select Resume at the Operational Panel

- Yes
  - Does the alarm reoccur
    - No
      - Resume normal operation
    - Yes
      - Go back to step 1