

Robotics I – Process Path and RV Loader

Topic	Reference												
DELIVERY METHOD D: Review components at the instrument. Refer to Service and Support Manual, Section 1, i2000 Module Overview .													
Process Path (PP) Components	<table> <tr> <th>Component</th><th>Function</th></tr> <tr> <td>Process Path (PP)</td><td> - Teflon coated, circular assembly with 2 channels or tracks: - Inner: a holding area for clean RV's - Outer: allows for assay processing and reads to occur - Provides an incubated environment for assay reaction process - Offers access points for various subassemblies to perform steps required for assay processing - liquid dispense/aspiration points - wash points as necessary for the supported assay protocols - optical reads - Holds replaceable magnets (3) to allow microparticle capture when RV's are positioned at locations: - optics read - Wash Zones (2) - Generates a pop-up error for a successful PP motor stall recovery: 5106 Process path jam was detected and a recovery was successfully performed. Process path may require servicing. </td></tr> <tr> <td>Process Path Disk & Home Sensor</td><td> - Supports and guides 112 RV positions in PP - Contains disk homing holes to pass through the sensor and used only during initialization </td></tr> <tr> <td>Process Path Cover</td><td> - Mounted to the process path assembly - Holds subassemblies used for assay processing - Blocks light and helps maintain a heated environment - contains an RV Access Door used during M&D procedures </td></tr> <tr> <td>Process Path Motor</td><td> 36VDC motor indexes the PP disk counter clockwise one RV position every 18 seconds - Will attempt to correct jam encountered and display a successful or error pop-up - Motor is encoded so that each RV position has a home position - Uses motor driver #1 and indexer #1 </td></tr> <tr> <td>PP Heaters (6) & Thermistors </td><td> 27VAC heater pads (6) mounted to the underside of the PP - Heaters are independently replaceable - Each heater contains an embedded thermistor and used for control </td></tr> </table>	Component	Function	Process Path (PP)	- Teflon coated, circular assembly with 2 channels or tracks: - Inner: a holding area for clean RV's - Outer: allows for assay processing and reads to occur - Provides an incubated environment for assay reaction process - Offers access points for various subassemblies to perform steps required for assay processing - liquid dispense/aspiration points - wash points as necessary for the supported assay protocols - optical reads - Holds replaceable magnets (3) to allow microparticle capture when RV's are positioned at locations: - optics read - Wash Zones (2) - Generates a pop-up error for a successful PP motor stall recovery: 5106 Process path jam was detected and a recovery was successfully performed. Process path may require servicing.	Process Path Disk & Home Sensor	- Supports and guides 112 RV positions in PP - Contains disk homing holes to pass through the sensor and used only during initialization	Process Path Cover	- Mounted to the process path assembly - Holds subassemblies used for assay processing - Blocks light and helps maintain a heated environment - contains an RV Access Door used during M&D procedures	Process Path Motor	36VDC motor indexes the PP disk counter clockwise one RV position every 18 seconds - Will attempt to correct jam encountered and display a successful or error pop-up - Motor is encoded so that each RV position has a home position - Uses motor driver #1 and indexer #1	PP Heaters (6) & Thermistors 	27VAC heater pads (6) mounted to the underside of the PP - Heaters are independently replaceable - Each heater contains an embedded thermistor and used for control
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