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Abbott architect i2000sr operation manual

Instrument Overview Review troubleshooting reference documentation (ISA, troubleshooting database, Service and Support Manual, diagrams, etc.) 4. o Inspect buffer dispense system 3. 83. Action: Locate or Remove the components related to temperature. Assay Reagents Define Reagent Kits • Reagent kits are 2 or more bottles for an ARCHITECT iSystem assay • Septums are placed on all open reagent bottles prior to loading reagent bottle on the system. Refer to the Service and Support Manual, Section 1, General Data, i2000SR Module Overview, CMIA Optics. Do customers have access to M&D 6007 Touchscreen Monitor Calibration? Precision is measured by: • Performing a minimum of 20 replicates • Reviewing run results CV% • Comparing CV% results with the expected result listed in a similar assay listed in the assay insert Precision Activity Time = 30 minutes Purpose: To familiarize participants with calibrations and QC configuration using the service and support manual procedure P-24 Precision Run. 8 Basic Troubleshooting Pipettor, LSL, and PM AST Tools Activity Action: Practice troubleshooting and identifying tick codes and other necessary data for service situations. Day 2 Card Case Boards ARCHITECT i2000SR Global Field Service Training Program (Participant) 37 of 104 80000348-101 For Internal Use Only Topic Reference Power & Card Case Troubleshooting (Optional) Instructor-Led Group Activity Time = 15 minutes Purpose: to familiarize participants with troubleshooting procedures used to assist with initialization errors Service Tips: • Minimum Board Configuration allows the instrument to boot to the Stopped status with only the Module Controller and the CMIA Optics Boards. g.) Is the power supply a high cost part?

Record Ticker Data! When you replace the RV Loader Wheel Motor to resolve the error above, record the following: Use the Ticker Code Tool to find: b) Work Done Code: _____ f) Action Taken for the part: _____ g) Reason for Action Code: _____

Use the Path Move tool to move the motor from the Indexer Board to the Motor Driver Board. Ensure all connections are secure and the motor is properly mounted. The motor must provide resistance when attempting to manually move the component. • Home sensor and encoder signals are routed and monitored at the Indexer Board. • Motor speed and direction movement data routes from an Indexer to a Motor Driver Board. Service tips: • Ensure all front and back covers are in place prior to performing M&D 1020 CMIA Optics Background. • Shutters spring may be easily dislodged during service (if service personnel hands are in the optic shutter location during instrument service). • Cover light pipe whenever removing optics to prevent reader PMT excitation. • Ensure optics data are entered correctly into configuration parameters Action: Perform the following diagnostic procedures M&D 1020 Optics Background M&D 1030 Shutter Test Action: Perform the following R&R Procedures R&R C1.01 CMIA Reader R&R C1.02 Shutter Assembly Repeat M&D 1020 Optics Background and M&D 1030 Shutter Test Discussion: Instructor will check learner understanding through observation during the activity and responses to review questions, then clarify key points Troubleshooting & AST Tools Activity Time = 20 minutes Purpose: To practice solving optics failures, coding tickets, and using AST Tools. Note: This activity may be performed as an instructor-led activity. List other documents in the ISA. 16.

Use service documentation (KM, Service and Support Manual, assay inserts, message history, etc.) and tools appropriately, including test equipment Identify abnormal system conditions Locate system components and use proper terminology Resolve basic error situations independently, with minimal instructor guidance Use effective or logical troubleshooting methods to resolve unknown error conditions Demonstrate basic customer interaction (ASE) skills Activity Instructions In order to complete this exercise, follow the scenario provided by the instructor. 17. Assays(s) and levels(s): _____

Aspirations a routed from the PM board to digitize the signal a digitized signal is sent to the LLS board for evaluation of a normal pattern. If an abnormal pressure pattern is detected, an aspiration error will be generated. Day 2 Card Game Boards ARCHITECT 12000SR Global Field Service Training Program (Participant) 38 of 104 80000348-101 For Internal Use Only Topic Reference Power & Card Game Troubleshooting (Optional) Instructor-Led Group Activity continued Connect Instrument debug cables to the card cage port. Connect adaptor cable to the SCC adaptor cable. Power On the instrument. Observe boot sequence on SCC monitor. Record errors encountered during instrument boot-up and use KM to assist with troubleshooting. a) Log into AbbottLink and record the area that provides you a quick view of instrument error messages without downloading log files. 60. Day 3 Fluidics I - Trigger/Pre-Trigger Fluidics ARCHITECT 12000SR Global Field Service Training Program (Participant) 59 of 104 80000348-101 For Internal Use Only Fluidics I - Trigger/Pre-Trigger Fluidics Objectives • Identify functions and physical location of subsystem components • Describe key fluid pathways for the Trigger/Pre-Trigger (T/P/T) components • Perform key removal, replacement, verification, and alignment procedures • Use diagnostic tools and interpret data to isolate root cause of Trigger/Pre-Trigger fluids system failures Component Function/Description DELIVERY METHOD: Review components and function at the instrument. Pressure monitoring is used only during aspirations. z. Reagent: refer to problems with Reagent, Calibrators and/or Controls such as • Improperly stored products • Expired Reagent, Calibrators and/or Controls • Control ranges established incorrectly 4. Appendix Appendix A : Systems Comparison Table ARCHITECT 12000SR Global Field Service Training Program (Participant) 89 of 104 80000348-101 For Internal Use Only Appendix Appendix 90. View online or download the tool to troubleshoot the problem. 1. Select the problem type. 2. Select the reagent. 3. Select the flag column on the displayed screen. Task Manager Task Manager provides service personnel access to the system's hard drive for the following situations. • Performance of an ISA or TSB • Obtain data for investigation of SCC installation procedures • Troubleshoot system or software related errors • Setup or edit printer or replacement • Perform touch screen calibration FS logon is required to access the Task Manager from the system area. 87. Also, refer to current ISA 116-128 PM procedures related to the Reagent Carousel. Select the following options to filter the data, and record the top 10 parts. If a Quad Board failed and 5VDC was not present at the Card Cage, where would you measure the 5VDC voltage output specifically? Day 1 Assay Configuration ARCHITECT 12000SR Global Field Service Training Program (Participant) 22 of 104 80000348-101 For Internal Use Only Assay Calibration Topic Reference DELIVERY METHOD: Perform software screen review at the instrument. Select: SYSTEMS Task Manager Type: EXPLORER Select: Program Files ARCHITECT Terminal Open ARCHITECT Terminal.exe file Select: File New Connection: – Open Port – Com x Where x = 0: Port Number: Recommend using ARM port COM 4 for P platforms and higher. Day 4 Temperature ARCHITECT 12000SR Global Field Service Training Program (Participant) 74 of 104 80000348-101 For Internal Use Only Summary - Temperature, Vacuum, and Waste Troubleshooting Component Common Related Errors Related Procedures IARM • 0016 Motor stall error • 0030 Conductivity sensor unplugged Error • 0014 ASTM 1381 timeout error (communication error) • Leaks or 0006 Flood error • ISA ARCH-73 ARCHITECT IARM Procedures & Troubleshooting • ISA ARCH-12 ARCHITECT IARM Presets and Installation • IARM M&D: o Valves Test o Pump Motor Test o Flush o Instrument Port Configuration o Instrument Check (port test) IARM • Inlet Water quality too low • Inlet water temperature out of range • Output buffer conductivity too low/high • Outlet buffer too hot/cold too fast too slow • Air bubbles in the input/output water • Input/output water pressure failure • Reagent delivery failure • Reagent dilution failure • Reagent waste failure • Reagent waste overflow • Reagent waste pump failure • Reagent waste pump malfunction • WZ • Reagent tubing o Clogged or bent probe o Old (pathology), obstructed/damaged, or cut tubing • Buffer dispense system malfunction o Failed thermistor or WZ Valve Insufficient vacuum • Divertor is not properly sealed to route RVs • Daily Maintenance incomplete • M&D 2050 WZ Aspiration Test • M&D 2026 Wash Zone 1 Gravimetric - visual comparison • M&D 2027 Wash Zone 2 Gravimetric - visual comparison • M&D 2060 Wash Zone 1 Check • M&D 2007 Wash Zone 2 Check • M&D 3520 Temperature Status • M&D 3177 Vacuum System Test • M&D 2151 Prime Wash Run • 6041 Daily Maintenance • Visually inspect/replace thermistor tubing if needed • M&D 2600 CLI Commands 75. 76. Refer also to ISA 116-128 PM. • Accomplished by placing a pressure transducer in the fluid line between the syringe and probe • During liquid aspiration, the full pressure profile is measured and analyzed for conformance to a normal pattern. To create a backup, select: 1. • Ensure samples, controls, and reagent bottles are devoid of foam and bubbles; correctly remove any foam and bubbles present. Refer to the ARCHITECT System Operations Manual. 2. Day 4 Planned Maintenance (PM) ARCHITECT 12000SR Global Field Service Training Program (Participant) 86 of 104 80000348-101 For Internal Use Only Day 4 Review QUESTIONS 1. Yes/No (circle one) h. What indicators are available to inform you the part is a HCP? ARCHITECT RHS laboratory equipment pdf manual download. Copy the backpack to external media 15. Day 4 Review QUESTIONS 1. Yes/No (circle one) i. How do you troubleshoot a temperature and wash zone problem? Troubleshooting steps include: 1. Verify the temperature and wash zone settings are correct in the configuration. 2. Verify the reagent and wash zone bottles are full and properly labeled. 3. Verify the reagent and wash zone bottles are at room temperature. 4. Verify the reagent and wash zone bottles are not expired. 5. Verify the reagent and wash zone bottles are not contaminated. 6. Verify the reagent and wash zone bottles are not blocked. 7. Verify the reagent and wash zone bottles are not leaking. 8. Verify the reagent and wash zone bottles are not overfilled. 9. Verify the reagent and wash zone bottles are not underfilled. 10. Verify the reagent and wash zone bottles are not empty. 11. Verify the reagent and wash zone bottles are not damaged. 12. Verify the reagent and wash zone bottles are not expired. 13. Verify the reagent and wash zone bottles are not contaminated. 14. Verify the reagent and wash zone bottles are not blocked. 15. Verify the reagent and wash zone bottles are not leaking. 16. 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Action: Perform M&Ds and observe the Power Supply LED patterns. Discussion: Where can the acceptable %CV for an assay be located? c) What is the name of this RV loader sensor position? * Proper Belt positioning is important for proper operation. Shutter Assembly & Read errors * Homing Failure or Step loss detected * M&D 1030 Shutter Test Trigger/PreTrigger Manifold Valves * Leaking * 6000 Zero range detected * 1006 unable to process test, background read failure * M&D 2152 Prime Trigger/Pre-trigger * M&D 2004 Pre-trigger Check (precision) * M&D 2005 Trigger Check (precision) * M&D 2130 Push Buttons 78. 3. Appendix Appendix B: Supplemental Information ARCHITECT 12000SR Global Field Service Training Program (Participant) 104 of 104 80000348-101 For Internal Use Only End of Participant Training Guide The ARCHITECT 12000SR immunoassay analyzer meets your laboratory's high standards for quality and performance. This manual provides the information you need to operate, maintain, and troubleshoot the ARCHITECT 12000SR. This manual is intended for use by trained personnel only. Please refer to the following procedures. Note: Refer also to ISA 116-128 PM vacuum related areas, v. Appendix Appendix A: 1 Systems Comparison Table ARCHITECT 12000SR Global Field Service Training Program (Participant) 91 of 104 80000348-101 For Internal Use Only 12000SR System HARDWARE - STORAGE and WASTE CENTER Pre-trigger/trigger storage area Same - compatible * Tray - Level sensors Same - compatible * Tray - Level sensors Wash buffer storage area * 25 L wash buffer reservoir * 12 L wash buffer reservoir Waste storage area * Solid waste container * Solid waste container * Optional 10 L liquid waste container HARDWARE - PROCESSING CENTER RV loader Not compatible with 11000SR * RV loader o RV hopper o RV loader wheel o RV transport * Sensor board 6 Not compatible with 12000SR * New design of RV loader o Upper and lower hopper o RV picker o RV load chute * No sensor board 6 Process path Not compatible with 11000SR * Process path o 112 process path positions o Rotates counterclockwise o Indexes on RV position every 18 seconds Not compatible with 12000SR * Process path o 23 process path positions o Rotates counterclockwise o Indexes on RV position (832 steps) every 18 seconds Pipettor Not compatible with 11000SR * 4 pipettors o Sample pipettor o Stat pipettor o Reagent 1 pipettor o Reagent 2 pipettor Not compatible with 12000SR * 1 o Aspirates and dispenses sample and reagent o Probe sensor Not compatible with 12000SR * 4 diverters o Load o Unload o Wash zone o Stat Not compatible with 12000SR * 3 diverters o Inlet o Outlet o Unload * RV unloader (passive) Continued 102. Data Service Tools ARCHITECT 12000SR Global Field Service Training Program (Participant) 28 of 104 80000348-101 For Internal Use Only Day 2 Review/Debrief Day 1 - 10 minutes * Review PM Checklist * Basic troubleshooting * Instrument overview * Basic operations o Assay configuration o QC and precision Service Tools Objectives * Access information on MyGSS necessary to identify and resolve operational and hardware errors * Reinforce when/how to use Service Tools in service tasks * Review Task Manager location, log on, and functions * Demonstrate AbbottLink screen data, instrument monitoring, and investigative tool activities TOOL Reference DELIVERY METHOD: Review information at the instrument or classroom.

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