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**SUBJECT** **New BQA Manuals available**

A new user and technical manual for the BQA instrument is already available.

**SERVICE**  
**Revised: Aug 12/2003**

**USER**  
**Revised: Nov 04, 2003**

In this document you will find the most updated revision record for each.

Because of the size of the manuals, is not possible to send them by e-mail.

To obtain a CD with the new manuals, contact Biokit.



## SERVICE MANUAL REVISION RECORD

The latest edition supercedes any preceding ones. If you have old editions, discard them to avoid possible confusion.

REV	DATE	REVISION HIGHLIGHT
0	Oct 23/2001	Published as Technical Information.
0	Nov 9/2001	Corrected known errors, added Chapter 8, etc.
0	Nov 26/2001	Published as Service Manual SM -E58xx-0.
1	Jan 15/2002	<ul style="list-style-type: none"> <li>- Added forwards, safety warnings, etc.</li> <li>- Chapters 2 and 3: Made changes for accuracy.</li> <li>- Chapter 6: Added cuvette check procedure.</li> <li>- Chapter 10: Made changes for readability and accuracy.</li> <li>- Appendix A: Made changes for accuracy.</li> <li>- Appendix D: Added wiring information for respective PC boards.</li> <li>- Appendix G: Added information on test points and LED's.</li> </ul>
2	Sep 15/2002	-Chapter 4: Added procedure of the "D. Remove the cuvette cover".
3	Oct 20/2002	<ul style="list-style-type: none"> <li>-Chapter 3: Added 25P3231 as IRU_DRV.</li> <li>-Chapter 5: Added procedure of cleaning of tubing system.</li> <li>-Chapter 6: Modified description in the "2. Preventative Maintenance".</li> <li>-Chapter 9: Modified description in the "3. Stirrer".</li> <li>-Chapter 10: Modified description in "Mounting stirrer" and "B. Replacing wipe tip".</li> <li>-Chapter 10: Added procedure of "F. Replacing IRU Heater".</li> <li>-Chapter 11: Added procedure of "8. DTA Board" and 25P3231 as IRU_DRV.</li> <li>-Chapter 12: Modified procedure in "4. Changing Offset Voltage".</li> <li>-Appendix A: Made changes of specifications (Item No.9-7, 11, 12 and 15) and EQUIPMENT LIST.</li> <li>-Appendix B: Modified special tool (jigs).</li> <li>-Appendix C: Attached code number in the parts list.</li> <li>-Appendix D: Added 25P3231 as IRU_DRV.</li> <li>-Appendix E: Revised diagrams.</li> <li>-Appendix G: Changed drawing direction of "Figure G-1". Added 25P3231 as IRU_DRV.</li> <li>-Appendix H: Added appendix H as BCR adjustment.</li> </ul>
4	Jun 10/2003	Fully revised.
5	Aug 8/2003	Modified for Windows XP version.
6	Dec 5/2003	-Appendix C: Type of Modular jack is corrected to "25AP-X-3710".

## USER MANUAL REVISION RECORD

The latest edition supercedes any preceding ones. If you have old editions, discard them to avoid possible confusion.

REV	DATE	REVISION HIGHLIGHT
0	May 31/2002	Published as Technical Information.
1	Aug 22/2002	-Chapter 1: Added explanation of "1.2.12 Liquid level sensor unit for external tank". Modified description of "1.4.2 Menu structure". -Chapter 2: Added explanation of "2.1.2 Preparation of external tank solutions" and "Automatic preparation mode in advance of measurement" in "2.1.3 Power-on". Modified explanation of "2.5 Setting of measurement conditions", "2.7 Initiation of measurement and monitoring" and "2.8 Addition of Sample". Added explanation of "2.10.2 Examples of printout". Modified explanation of "2.11.1 Graphic display [Graph (F9)]", "2.11.2 Measurement result of QC" and "2.11.3 Setting for graphic display". -Chapter 3: Modified explanation of "3.6.2 System parameters", "3.6.3 Operation of floppy disk" and 3.6.4 Entry of ISE parameters". -Chapter 4: Modified explanation of "4.7 Maintenance picture". -Chapter 5: Added explanation of "5.2.3 ISE Unit error".
2	Sep 27/2002	-Chapter 2: Modified explanation of "2.3.5 Condition of judgment criteria and measuring conditions" and "2.10 Reproduction of measurement result".  Added example of calibration result printout in "2.10.2 Examples of printout". Added explanation of the judgment priority for "2.11.2 Measurement result of QC".
3	Oct 30/2002	-Chapter 4: Deleted the procedure of "4.9.2 Exchange of stirrer (Mix-1/Mix-2).
4	Nov 29/2002	-Chapter 2: Modified description of "2.6.3 Types of bar code labels", "2.10.1 Output of time course data" and "2.11.3 Setting for graphic display." -Chapter 3: Changed the picture on page-3-3and 3-5.
5	Jan 31/2003	-Chapter 2: Modified explanation of "2.3 Calibration measurement" and picture of [Calibration (F9)] and [Checks (F10)] of [Run Monitor (F5)]. Modified explanation of "2.4 Test selection" and picture of [Test Selection (F10)]. Modified explanation of "2.5 Setting of measurement conditions" and picture of [Condition (F12)] of [Run Monitor (F5)]. Modified explanation of "2.7 Initiation of measurement and monitoring" and picture of [Run Monitor (F9)] of [Run Monitor (F5)]. Modified explanation of "2.8 Addition of sample". Modified explanation of "2.11 Quality control" and picture of graph so that ISE quality control procedure is added. -Chapter 5: Being filled explanation for blank columns of error list. Added ISE error codes and troubleshooting list.
6	June 09/2003	Contents are made overall review to match with the software version (PC:2550187105 and Mechanical:2550164119).

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## USER MANUAL REVISION RECORD (continue)

REV	DATE	REVISION HIGHLIGHT
7	Sep. 08/2003	<p>-Chapter 1: Added the description on "Easy start of measurement".  Added the description on the cancellation of alarm sound.</p> <p>-Chapter 2: Added the description on "Automatic ISE priming".  Added the description on the cuvette water placement before sleeping the analyzer.  Changed the significant digits of the reagent volume in the picture of reagent inventory.  Added a criterion for the prozone limit check.  Added the mask function in the test selection.  Become possible to select the no-handshake mode on the host communication.  Added the function to delete of retrieved results in the [Result (F12)] picture of [System Parameter].  Modified the print format in "2.10.2 Example of printout".</p> <p>-Chapter 3: Added the <b>Detail</b> button function for optional settings in the [System Parameter] picture.  Modified the description on the registration of reagent names and codes.  Changed the range of ISE calibration values.</p> <p>-Chapter 4: Changed the function of "Cuvette Water Placement" in the [Sequence (F9)] picture of [Maintenance].  Added the function of "SPT(S)" for SPT nozzle wash in the [Wash (F10) Page:1/2] picture in [Maintenance].  Added the procedure of putting silicon-oil for the exchange of syringe tip ("4.9.1 Exchange of Syringe tip").  Corrected the name of wash solution (Page 4-3, 4-4 and 4-20).  Modified the procedure of exchange of pipettes ("4.9.2 Exchange of Pipette (SPT/RPT)").  Added the exchange of ISE pump cassettes ("4.9.5 Exchange of Pump Cassettes").</p> <p>-Chapter 5: Added the function of deleting all alarm records from internal database.  Modified the explanation of alarm messages in the "5.2 Alarm messages".</p> <p>-Appendix: Added the chapter of appendix.  Appendix A: PC software upgrading procedure.  Appendix B: Supplement of ISE unit.</p> <p>-All section: Modified the description of footer through all pages</p>
8	Nov. 04/2003	<p>Contents are made overall review to match with the software version (PC:2550187106).</p>