

MONO INSTRUMENT SERVICES

983/G Self Test Diagnostics

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| Title: Diagnostic Procedure | Model: Perkin Elmer 983/G | Operational Area: Maintenance |
| Procedure Number: MCAL.0027 | Effective Date: Mar 1, 2004 | Constructed by: D.Bevington |

General:

This procedure describes the procedure for enabling the SELF TEST Diagnostics on a 983/G Infrared Spectrophotometer.

Procedure:

1. Power the 983/G OFF and raise the top lid to the fully open position.
2. Remove the left side black metal cover over the electronics box. Lid is grounded.
3. Locate the Main Microprocessor Board. This is the third board from the right hand side of the card cage. It has a gray ribbon cable connected to the top of the board.
4. Remove the gray ribbon cable and push it aside.
5. Remove the Main Microprocessor Board using the black handle / pry bars at the edge of the circuit board.
6. Examine the circuit board. There are three banks of switches. They are labeled S2, S3, and S4
7. On switch bank S3 turn switch number 8 ON. This would be in the UP position or in the direction of the arrow.
8. Carefully re insert the Main Microprocessor Board into its socket again using the black handle / pry bars to firmly insert the board into its socket.
9. Re connect the gray ribbon cable.
10. Lower the 983/G lid and power the instrument ON.

The top of the CRT display will now say "SELF TEST PAGES ENABLED"

Directly below the wavenumber display is a spot reserved for error codes. Almost all 983/G Infrareads will give an ERROR 334 on start up. This can be ignored. If you control your 983/G from a computer you will see and ERROR 101 as communications is connected or disconnected. This can also be ignored.

All other error codes should be reported to Mono Instrument Services.

Note: Error codes stack on top of each other. If there are multiple errors you can view them all by pushing the SHIFT key and then CLEAR key simultaneously.

Note: There are now 8 pages to the 983/G operation. Pages 1 through 4 are for normal operation and pages 5 through 8 are for servicing and calibration.

End of procedure