



Agilent Technologies

Quick Reference Guide
for
Troubleshooting 7673 Autosampler Errors

A16008

This document is believed to be accurate and up-to-date. However, Agilent Technologies, Inc. cannot assume responsibility for the use of this material.
The information contained herein is intended for use by informed individuals who can and must determine its fitness for their purpose.

The Quick Reference Guide will help to isolate problems associated with the 7673 Autosampler System to help determine the site of the problem, i.e. in the injector (tower), controller, or 100 vial tray (if present).

Common problems stem from using vials that are not designed to work with the autosampler, syringes that have become “sticky” or “frozen” so that the plunger movement is restricted, or a build-up of film on the surface of the sample turret in the tower. It is recommended that these issues be fully evaluated before moving to in-depth troubleshooting.

If further diagnostics are desired, please see associated documents:

[Injector Diagnostics-18593A/B or G1513A](#)

[Tray Diagnostics with 18594A/B Controllers](#)

[Tray Diagnostics with the G1512A Controller](#)

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Quick Reference

LED Error Codes

INJECTOR ERRORS

Injector Led

Red Steady On
Red 2 Flashes
Red 3 Flashes
Red 4 Flashes
Red 5 Flashes
Red 6 Flashes

Description

Safety Error
Injector Syringe Error
Injector Turret Error
Injector Plunger Error
Incomplete Injection Error
Injector Memory Error

Injector Front Panel LEDs

Red, yellow, green flashing in rotation
Yellow "ALIGN" LED on

Controller LED**Description**

Green On Injector Alignment Error

The yellow "ALIGN" LED is located inside the tower door where the control switches are located.

TRAY ERRORS

Controller LED

Red Steady On
Red 2 Single Flashes*
Red 3 Single Flashes*
Red 4 Single Flashes*
Red 5 Single Flashes*
Red 6 Single Flashes*
Red 7 Single Flashes*

Description

Tray Not Connected Error
Vial Lost/Left in Gripper Error
Theta Axis Error
Radial Axis Error
Gripper Axis Error
Tray Processor Error
Bottle Not Found Error

CONTROLLER ERRORS

Controller LED

Red, 2 Double Flashes
Red, 3 Double Flashes
Red, 4 Double Flashes
Red, 5 Double Flashes

Description

Controller Processor Error
Controller RAM Error
Controller ROM Error
Configuration Error

MISCELLANEOUS ERRORS

Injector LED

Red, Yellow, Green On
Red, Yellow, Green On
None

Controller LED

Green On
Red
None

Description

Injector Processor Error
18-Volt Supply Error
Power Supply Error

*The Controller/GPIB board also uses single red flashes to communicate error conditions found during its power-up selftest. See "Controller/GPIB Board Errors."

Troubleshooting—Automatic Liquid Sampler with G1512A Controller

LED Error Codes

INJECTOR ERRORS

Injector LED	Controller LED	Description
Red On Steady	Green On Steady	Injector Door Open/ Not Mounted Error
Red, 2 Single Flashes	Green On Steady	Syringe Error
Red, 3 Single Flashes	Green On Steady	Turret Error
Red, 4 Single Flashes	Green On Steady	Plunger Error
Red, 5 Single Flashes	Green On Steady	Incomplete Injection Error
Red, 6 Single Flashes	Green On Steady	Injector Memory Error
None	None	Power Error

TRAY ERRORS

Injector LED	Controller LED	Description
Green On Steady	Yellow, 3 Single Flashes/ Green On Steady/3 Beeps	Bottle In Gripper Error
Green On Steady	Yellow, 4 Single Flashes/ Green On Steady/4 Beeps	Hard Tray/Injector Error

MISCELLANEOUS LED PATTERNS

Injector LED	Controller LED
Red, Yellow, Green On Steady	None
Red, Yellow, Green On Steady	Green On Steady
Red, Yellow, Green On Steady	Yellow, Green On Steady
None	Yellow, 1 Single Flash/1 Beep
None	Yellow, 2 Single Flashes/2 Beeps
None	Yellow, 3 Single Flashes/3 Beeps
None	Green, 1 Single Flash
None	Yellow, Green, 1 Alternating Flash/Continuous Beep

Troubleshooting—Bar Code Reader with 18594A/B Controller

Error Condition Beeps

If an error condition exists, there will be a series of beeps at power-on to draw your attention, a pause of approximately half a second, and the series of beeps will then be repeated once.

1. Count the beeps.
2. Decode the error message (see below).

Beeps	Indication	Action
10 beeps	ROM error	Replace BCR board
11 beeps	RAM error	Replace BCR board
13 beeps	Reader cable is disconnected or damaged	Connect cable or replace

Configuration Beeps

Following the error tests there will be a series of beeps to indicate the configuration of the switch settings. This series will not be repeated.

1. Count the beeps.
2. Decode the configuration message (see below).

Beeps	Indication	Beeps	Indication
1 beep	board is set in TTL mode	10 beeps	read mixed, zero suppressed, checksum off
2 beeps	board is set in command-only mode	11 beeps	read mixed, zero suppressed, checksum on
3 beeps	read Code 39 with checksum off —Normal mode	12 beeps	read mixed, checksum off
4 beeps	read Code 39 with checksum on	13 beeps	read mixed, checksum off
5 beeps	read Code 2 of 5 with checksum off	14 beeps	read mixed, checksum off
6 beeps	read Code 2 of 5 with checksum on	15 beeps	read mixed, checksum off
7 beeps	read UPC code	16 beeps	read mixed, checksum off
8 beeps	read mixed, checksum off		
9 beeps	read mixed, checksum on		