

Keithley Instruments, Inc.
28775 Aurora Road
Cleveland, Ohio 44139-1891
1-888-KEITHLEY
www.keithley.com

Version A10 Firmware Release Notes

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General Information

Supported models

This firmware is used on the following Keithley Instruments products:

Model 6517B

Installation instructions

Use Keithley Flash Wizard version C09 or later to upgrade the Model 6517B.

Upgrade considerations for the Model 6517B

The following table outlines the considerations that should be made when deciding whether to upgrade to this version from any previous version.

Consideration	From A09
Recalibration required	No
Requalification suggested	Yes ¹
Should you upgrade?	Review ²

A10 Release

Overview

Critical fixes

PR 41677

Models affected:

Model 6517B

Symptom:

Units may have slight offsets in measurements when calibrated while operating on 60 Hz power.

Resolution

The issue has been repaired.

Enhancements

No enhancements have been added in version A10.

¹ If any features are used related to any of the corrected issues, requalification is suggested to ensure compatibility.

² As needed to correct problems addressed by version A09.

A09 Release

Overview

Critical fixes

PR 41581 **Models affected:**

Model 6517B

Symptom:

Noise and offsets may appear in lower current ranges when operating on 50Hz power due to aperture being set incorrectly.

Resolution:

The issue has been repaired.

PR 41462 **Models affected:**

Model 6517B

Symptom:

Selecting scientific notation for the number format in charge measurements causes the unit to stop responding.

Resolution:

The issue has been repaired.

Enhancements

No enhancements have been added in version A09.

A08 Release

Overview

Critical fixes

PR40525 **Models affected:**

Model 6517B

Symptom:

Resistance, current, and voltage measurements may be different from expected, due to relays not latching properly.

Resolution:

The issue has been repaired.

Enhancements

No enhancements have been added in version A08.

A07 Release

Overview

Critical fixes

PR40525 **Models affected:**

Model 6517B

Symptom:

Resistance, voltage, and current measurements may be different from expected, due to relays not latching properly.

Resolution:

The issue has been repaired.

Enhancements

No enhancements have been added in version A07.

A06 Release

Overview

Critical Fixes

PR39774 **Models affected:**

Model 6517B

Symptom:

Alternating polarity resistance test sequence delays are shorter than expected.

Resolution:

The issue has been repaired.

PR39898 **Models affected:**

Model 6517B

Symptom:

Voltage source output may be zero when turned on.

Resolution:

The issue has been repaired.

Enhancements

No enhancements have been added in version A06.

A05 Release

Overview

Critical fixes

PR38989

Models affected:

Model 6517B

Symptom:

The menu option to configure the buffer count to use the trigger model count causes the front panel to stop responding.

Resolution:

The issue has been repaired.

PR39438

Models affected:

Model 6517B

Symptom:

Real-time clock can jump ahead by several hours.

Resolution:

The issue has been repaired.

PR39637

Models affected:

Model 6517B

Symptom:

Using the trigger count setting for the buffer count causes “Buffer Data Lost” errors if no readings are stored.

Resolution:

The issue has been repaired.

PR39641

Models affected:

Model 6517B**Symptom:**

"Buffer Data Lost" errors occur if the buffer count is set, but no readings are stored.

Resolution:

The issue has been repaired.

PR39651

Models affected:**Model 6517B****Symptom:**

Readings are noisier unless line sync is turned off and then turned back on.

Resolution:

The issue has been repaired.

Enhancements

No enhancements have been made in version A05.

A04 Release**Overview****Critical fixes**PR38548 **Models affected:****Model 6517B****Symptom:**

Clock time reported incorrectly over GPIB and RS232 between 12M and 1PM.

Resolution:

The issue has been repaired.

Enhancements

No enhancements have been made in A04.

A03 Release

Overview

Critical fixes

PR37667 **Models affected:**

Model 6517B

Symptom:

Hi limit settings do not allow values beyond 9.9E8.

Resolution:

The issue has been repaired.

PR37767 **Models affected:**

Model 6517B

Symptom:

Buffer readings do not include temperature or humidity when retrieved over GPIB or RS232.

Resolution:

The issue has been repaired.

PR37871 **Models affected:**

Model 6517B

Symptom:

Clock time does not change between AM and PM until 1:00.

Resolution:

The issue has been repaired.

PR37889 **Models affected:**

Model 6517B

Symptom:

External feedback function does not work properly.

Resolution:

The issue has been repaired.

PR37907 **Models affected:**

Model 6517B

Symptom:

Math percent function does not allow values over 5E9.

Resolution:

The issue has been repaired.

PR38200 Models affected:**Model 6517B****Symptom:**

:sour:volt:range MIN|MAX|DEF arguments do not work properly.

Resolution:

The issue has been repaired.

PR38394 Models affected:**Model 6517B****Symptom:**

Self test query (*TST?) reports failure (1).

Resolution:

The issue has been repaired.

PR38397 Models affected:**Model 6517B****Symptom:**

Resistance measurements show different current values in resistance function when using the "next" display to show measured current, and in current function when measuring current.

Resolution:

The issue has been repaired.

PR38398 Models affected:**Model 6517B****Symptom:**

Pressing Local causes voltage source to go to zero volts, but output is still on. Sending a device clear command causes similar behavior.

Resolution:

The issue has been repaired.

PR38441 Models affected:**Model 6517B****Symptom:**

Can't change temperature units from degrees C.

Resolution:

The issue has been repaired.

Enhancements

No enhancements have been made in A03.

Non-critical fixes

PR38202 **Models affected:**

Model 6517B

Symptom:

During calibration, the current offset is excessive if the current offset calibration steps fail.

Resolution:

The issue has been repaired.

Known issues

There are no known issues in A03.