

SAFETY – IMPLEMENTED DURING NORMAL COURSE  
OF PROVIDING SUPPORT

**B1505A-01-S**

# **S E R V I C E N O T E**

Supersedes:  
NONE

## **B1505A Power Device Analyzer/Curve Tracer Mainframe**

**Serial Numbers: JP49320129 / JP51420123, MY51330101 / MY53010307,  
and SG51330101 / SG52310102**

[Note 1: Not all instruments in these ranges are affected. Refer to page 3 & 4 of this Service Note.]

### **POSSIBLE SHOCK HAZARD**

**WARNING**

### **HAZARD CLASS 2**

**There is a possibility of an electrical shock hazard.**

#### **Parts Required:**

| <b>P/N</b> | <b>Description</b> | <b>Qty.</b> |
|------------|--------------------|-------------|
|------------|--------------------|-------------|

NONE

### **ADMINISTRATIVE INFORMATION**

|                                                                                                                                                                                                                                              |                                                                                                    |                                                                                             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| SERVICE NOTE CLASSIFICATION:                                                                                                                                                                                                                 |                                                                                                    |                                                                                             |
| <b>SAFETY</b>                                                                                                                                                                                                                                |                                                                                                    |                                                                                             |
| ACTION<br>CATEGORY: X AGREEABLE TIME                                                                                                                                                                                                         |                                                                                                    | STANDARDS<br>LABOR: 1.0 Hours                                                               |
| LOCATION<br>CATEGORY: <input checked="" type="checkbox"/> CUSTOMER INSTALLABLE<br><input type="checkbox"/> ON-SITE (active On-site contract required)<br><input type="checkbox"/> SERVICE CENTER<br><input type="checkbox"/> CHANNEL PARTNER | SERVICE <input type="checkbox"/> RETURN<br>INVENTORY: <input type="checkbox"/> SCRAP<br>X SEE TEXT | USED <input type="checkbox"/> RETURN<br>PARTS: <input type="checkbox"/> SCRAP<br>X SEE TEXT |
| AVAILABILITY: ALWAYS                                                                                                                                                                                                                         |                                                                                                    | NO CHARGE AVAILABLE UNTIL: November 30, 2018                                                |
| <input type="checkbox"/> Calibration Required<br>X Calibration NOT Required                                                                                                                                                                  |                                                                                                    | PRODUCT LINE: 1H<br>AUTHOR: HT                                                              |
| ADDITIONAL INFORMATION:                                                                                                                                                                                                                      |                                                                                                    |                                                                                             |

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**Situation:**

Continuous atmospheric electric discharge may occur on DUT during the measurement with HVSMU (B1513A / B). If it occurs, the hazardous voltage may appear at DUT terminals and it may take some time for the voltage to fall down to a safe level. The cause of the problem is that the big electrical noise caused by the electric discharge interferes the proper software operation.

**Solution/Action:**

Updating the firmware to A05.04 or later by installing EasyEXPERT software can solve this issue. Check the firmware revision of the instrument and update the revision to A.05.04 or later, if necessary.

**Step 1: Determine whether or not the instrument is affected by this issue.**

(Note: This can be done by the customer without contacting Agilent.)

(a) Check to see if the instrument serial number is included in the lists shown on pages 4 & 5.

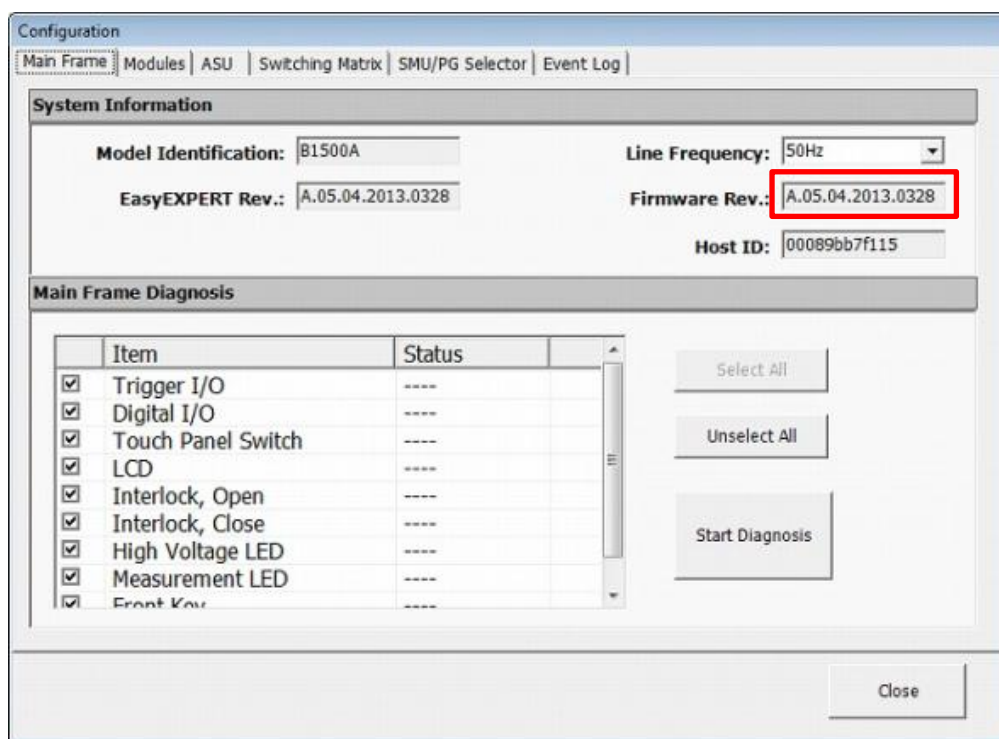
If your instrument serial number is not included in these lists, then this Service Note does not apply.

(b) Check the firmware revision of the instrument as follows.

- Start EasyEXPERT and go to “Configuration” window.
- Check the firmware revision displayed in the “Firmware Rev.:" section.  
(indicated by ‘red’ square in the screenshot below.)

If the revision displayed is A.05.04 or later, then this Service Note does not apply.

If the revision displayed is A.05.03 or earlier, proceed to the next step.



Step 2: Updating the firmware to A.05.04 by installing EasyEXPERT Software.

(Note: This can be done, without contacting Agilent.)

(a) Visit the below software download website

<http://www.home.agilent.com/agilent/software.jsp?ckey=822866&lc=eng&cc=US&nid=-34001.901733&id=822866>

(b) Download A.05.04 software, by clicking the 'Download' button in the website.

If the above does not work, you can also visit the site as follows.

1. Go to [www.agilent.com/find/b1505a](http://www.agilent.com/find/b1505a)
2. Find and click "Technical Support",
3. Click "Drivers,firmware & Software" tab,
4. Click "B1500A/B1505A EasyEXPERT Software Update; 5.0 or earlier",
5. Click the "Download" button for the version A.05.04 or ater

(c) Install and update the software following the instruction in the website.

#### If you need support from Agilent

If you need support, please contact the Agilent Sales or responsible Agilent authorized Sales company to get the phone support from Agilent Service Center.

And if you prefer getting the software update to be performed at the Agilent Service Center with fee, please communicate it, too. And in this case, you will need to ship B1505A to the Agilent Service Center.

**Affected Instrument In the Serial Number Ranges;**

The serial number ranges on the front page of this Service Note refers to instruments that were newly shipped, but only a subset of these were actually affected by this defect. The instruments listed below are known to be affected.

|            |            |            |            |            |            |
|------------|------------|------------|------------|------------|------------|
| JP49270101 | JP49320134 | JP49320174 | JP49320212 | JP49320252 | JP49320302 |
| JP49270102 | JP49320135 | JP49320175 | JP49320213 | JP49320253 | JP49320303 |
| JP49270103 | JP49320136 | JP49320176 | JP49320214 | JP49320254 | JP49320304 |
| JP49270104 | JP49320137 | JP49320177 | JP49320215 | JP49320255 | JP49320305 |
| JP49270105 | JP49320138 | JP49320178 | JP49320216 | JP49320256 | JP49320308 |
| JP49270106 | JP49320139 | JP49320179 | JP49320217 | JP49320257 | JP49320309 |
| JP49270107 | JP49320140 | JP49320180 | JP49320218 | JP49320258 | JP49320313 |
| JP49270108 | JP49320141 | JP49320181 | JP49320219 | JP49320259 | JP49320314 |
| JP49270110 | JP49320142 | JP49320182 | JP49320220 | JP49320260 | JP49320315 |
| JP49270111 | JP49320143 | JP49320183 | JP49320221 | JP49320263 | JP49320316 |
| JP49270112 | JP49320144 | JP49320184 | JP49320222 | JP49320264 | JP49320317 |
| JP49270113 | JP49320145 | JP49320185 | JP49320223 | JP49320265 | JP51420101 |
| JP49320101 | JP49320146 | JP49320186 | JP49320224 | JP49320266 | JP51420102 |
| JP49320102 | JP49320147 | JP49320187 | JP49320225 | JP49320269 | JP51420104 |
| JP49320103 | JP49320149 | JP49320188 | JP49320226 | JP49320270 | JP51420105 |
| JP49320106 | JP49320150 | JP49320189 | JP49320227 | JP49320275 | JP51420106 |
| JP49320107 | JP49320151 | JP49320190 | JP49320228 | JP49320276 | JP51420107 |
| JP49320109 | JP49320152 | JP49320191 | JP49320229 | JP49320277 | JP51420108 |
| JP49320110 | JP49320153 | JP49320192 | JP49320230 | JP49320278 | JP51420109 |
| JP49320112 | JP49320155 | JP49320193 | JP49320231 | JP49320279 | JP51420110 |
| JP49320114 | JP49320156 | JP49320194 | JP49320232 | JP49320280 | JP51420111 |
| JP49320116 | JP49320157 | JP49320195 | JP49320233 | JP49320281 | JP51420112 |
| JP49320117 | JP49320158 | JP49320196 | JP49320234 | JP49320282 | JP51420113 |
| JP49320118 | JP49320159 | JP49320197 | JP49320235 | JP49320283 | JP51420114 |
| JP49320119 | JP49320160 | JP49320198 | JP49320236 | JP49320285 | JP51420115 |
| JP49320120 | JP49320161 | JP49320199 | JP49320237 | JP49320288 | JP51420116 |
| JP49320122 | JP49320162 | JP49320200 | JP49320239 | JP49320290 | JP51420117 |
| JP49320123 | JP49320163 | JP49320202 | JP49320240 | JP49320292 | JP51420118 |
| JP49320124 | JP49320164 | JP49320203 | JP49320243 | JP49320293 | JP51420119 |
| JP49320125 | JP49320166 | JP49320204 | JP49320244 | JP49320294 | JP51420120 |
| JP49320127 | JP49320167 | JP49320205 | JP49320245 | JP49320295 | JP51420121 |
| JP49320128 | JP49320168 | JP49320206 | JP49320246 | JP49320296 | JP51420122 |
| JP49320129 | JP49320169 | JP49320207 | JP49320247 | JP49320297 | JP51420123 |
| JP49320130 | JP49320170 | JP49320208 | JP49320248 | JP49320298 |            |
| JP49320131 | JP49320171 | JP49320209 | JP49320249 | JP49320299 |            |
| JP49320132 | JP49320172 | JP49320210 | JP49320250 | JP49320300 |            |
| JP49320133 | JP49320173 | JP49320211 | JP49320251 | JP49320301 |            |

Serial numbers list continues to the next page.

|            |            |            |            |            |            |
|------------|------------|------------|------------|------------|------------|
| MY51330101 | MY51330127 | MY52310107 | MY52310148 | MY52310169 | MY53010292 |
| MY51330102 | MY51330128 | MY52310112 | MY52310149 | MY52310170 | MY53010293 |
| MY51330103 | MY51330129 | MY52310113 | MY52310150 | MY52310171 | MY53010294 |
| MY51330105 | MY51330130 | MY52310116 | MY52310151 | MY52310175 | MY53010295 |
| MY51330106 | MY51330131 | MY52310120 | MY52310152 | MY52310177 | MY53010296 |
| MY51330107 | MY51330132 | MY52310123 | MY52310153 | MY52310178 | MY53010297 |
| MY51330108 | MY51330133 | MY52310124 | MY52310154 | MY52310180 | MY53010301 |
| MY51330112 | MY51330134 | MY52310125 | MY52310155 | MY52310181 | MY53010302 |
| MY51330113 | MY51330135 | MY52310129 | MY52310156 | MY53010101 | MY53010303 |
| MY51330114 | MY51330136 | MY52310130 | MY52310157 | MY53010158 | MY53010304 |
| MY51330116 | MY51330137 | MY52310138 | MY52310158 | MY53010163 | MY53010305 |
| MY51330117 | MY51330138 | MY52310140 | MY52310159 | MY53010238 | MY53010306 |
| MY51330119 | MY51330139 | MY52310141 | MY52310161 | MY53010261 | MY53010307 |
| MY51330121 | MY51330140 | MY52310142 | MY52310163 | MY53010262 |            |
| MY51330122 | MY51330141 | MY52310143 | MY52310164 | MY53010270 |            |
| MY51330124 | MY52310101 | MY52310144 | MY52310165 | MY53010272 |            |
| MY51330125 | MY52310102 | MY52310146 | MY52310166 | MY53010274 |            |
| MY51330126 | MY52310103 | MY52310147 | MY52310168 | MY53010291 |            |

|            |
|------------|
| SG51330101 |
| SG51330102 |
| SG52310101 |
| SG52310102 |

**Revision History:**

| Revision Number | Date          | Author | Reason For Change |
|-----------------|---------------|--------|-------------------|
| 1.0             | Oct. 16, 2013 | HT     | Initial Release   |
|                 |               |        |                   |