# freETarget

Application Note: V6.0.1 Board Revision

**INTRODUCTION**

FreeETarget Version 6.0.1 requires a modification for reliable shot detection.

**REQUIRED TOOLS**

* Soldering iron and solder
* Small (1/2mm) drill
* Jumper wire
* Multimeter (resistance and voltage)

**REVISION**

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| **Preparation** |  |
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| On the backside of the board  Locate the via for modification | Wrap a piece of tape at the end of the drill, exposing only a small portion of the drill tip.  This is done to prevent the drill from going too deep. |
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| **Remove the Ground Connection** |  |
|  |  |
| Drill the via. (Tape removed for example only)  DO NOT DRILL MORE THAN ½ OF THE BOARD THICKNESS | Successfully broken via  Note hole does not go all the way through |
|  |  |
| Measure the resistance between U8-12 and the Test Point (G).  Ensure that there is no connection (high resistance) between the points. | DO NOT CONTINUE TO THE NEXT STEP IF U8-12 IS CONNECTED TO GROUND  Repeat steps above taking care not to drill too deep |
|  |  |
| **Insert the Jumper** |  |
|  |  |
| Place a jumper between U8-12 and the Test Point (-) |  |
|  |  |
| **Testing** |  |
| Apply power to the board  Measure the voltage between U8-12 and Test Point (G)  Verify that the voltage is nominally -5 Volts | Ensure that there are no shorts between any of the pins on U8 or the test points. |