

Running list of errata

You are currently reading version 1.8 of the oneTeslaTS User Manual. Before continuing, go to onetesla.com/downloads and check that v1.8 is the most up-to-date version. If not, download the errata or the latest version of the manual. This page will be continuously updated with corrections.

March 2015

Some early kits will have 47mm tall 1000uF bus capacitors, while others will have shorter capacitors. One of the screws in the bottom secondary endcap bumps into the tall capacitor by a fraction of a millimeter. We recommend omitting the third screw in the endcap, as is noted in step 10. It will not affect mechanical stability of the secondary.

Note that there are two incorrectly printed part values on the SD interrupter board: a 1K resistor which should be 100 ohms, and a 7805L that should be a 7833. See step 1 for details.

There may be a few extra M3 6mm screws in your kit.

In Step 5, the color code of R4 was incorrectly listed as 3.3K (orange orange red). The correct resistor is 3.3 Ω (orange orange gold gold).

In Step 5, IC4 was incorrectly listed as UCC37322. It has been corrected to UCC37321. All references to UCC37322 have been changed to UCC37321.

April 2015

Double-check that your sil-pads are large enough to cover the entire IGBT as it's possible that some smaller sil-pads got included in your kit accidentally. Contact us for the correct size sil-pads if this is the case.

June 2015

In Step 10, added more detailed end cap assembly instructions and diagrams.

July 2016

Some kits were shipped with boards that are only silkscreened on one side. In this case, please just solder the top of the board. SD cards no longer need to be 2GB or smaller. Steps re-ordered so end cap assembly is prior to varnishing. In Step 4J, maximum soldering temperature for the optical receiver was corrected to read 250 degrees instead of 400.

September 2016

Added more specific instructions for how to operate the SD card interrupter.

December 2016

Updated the placement of the breakout point.

April 2019

Updated R9 resistor information. Removed reference to D2 on the main board. Fixed typo regarding 15V rail, pin 6 (was previously marked as pin 8) in the Troubleshooting the Driver Logic section. Noted that the secondary coil should read 750 Ω , not continuity.