

Running list of errata

You are currently reading version 1.6 of the tinyTesla User Manual. Before continuing, go to onetesla.com/downloads and check that v1.6 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.

February 2015

Early kits may have the following extra parts, which are erroneous and may be omitted:

- female molex connector
- one surplus large ring terminal
- one surplus 6mm screw

March 2015

In v1.0 of the manual, on page 3, the color code for the 68Ω resistors R2 and R3 was incorrect. The correct color code is **blue gray black**.

April 2015

In Step 6-J, regarding the fiber optic receiver, kit builders have noticed that soldering this component at too high a temperature can damage it. We are not exactly sure of the proper temperature range, but we recommend soldering at no higher than 400°C.

May 2015

An extra IGBT testing procedure has been added to Step 15.

Some kits have stability issues with the USB interrupter. There are several fixes for this problem, which relates to the Zener diodes. The first option is to use a USB 3.0 port and omit the Zener diodes. The second option is to replace the 3.3V Zener diodes with 3.6V Zener diodes. Contact us at nikola@onetesla.com if you need them sent to you.

If you receive extra parts outside of the kit in your shipping box, they are for use in place of the parts in the kit. In particular, some shipments have replacement Zener diodes for the interrupter.

June 2015

Note added to glue down the bolt in the endcap during assembly.

In Step 15, multimeter check of IGBTs section, sentence changed from “Meter between pins 1 and 3 of X1, the large 3-pin connector. You should read open.” to “You should not read a dead short.”

Properly sized heat sink template added.

September 2015

Removed references to the tinyTesla interrupter chassis as it is purely cosmetic and will no longer be included in the kit.

May 2016

References to heat shrink removed, please use electrical tape instead.

The secondary should read approximately 450Ω, not 600.

15V should be on pin 6, not 8 of the UCC27425.

Primary wire is no longer Teflon.

Fuses are now 4A instead of 2A.

Please check IC5, the LM7815 15V voltage regulator. Some kits may have an LM7915 instead, which will not work. Please contact us for a replacement at nikola@onetesla.com.