

oneTesla TS Parts List

Please inspect your kit for accuracy and report any problems to us at nikola@onetesla.com within 10 days of receiving your kit.

Main Parts Box

Driver PCB
Shield PCB
Resonator PCB
Chassis front PCB
Chassis left PCB
Chassis back PCB
Chassis right PCB
Plastic secondary coil cap set
Breakout point
Power cord

Qty Item

| | |
|---|---|
| 3 | Capacitor, electrolytic 100uF |
| 1 | Capacitor, electrolytic 680uF |
| 6 | Capacitor, ceramic 1uF |
| 1 | Capacitor, mylar film .068uF |
| 2 | Capacitor, electrolytic 1000uF |
| 1 | Resistor, 10kΩ 1/4W |
| 1 | Resistor, 1kΩ 1/4W |
| 1 | Resistor, 3.3Ω 1/4W |
| 1 | Resistor, 1kΩ 5W, ceramic |
| 2 | Resistor, 100kΩ 1/2W |
| 1 | IEC clover jack |
| 2 | Solder terminals |
| 1 | Fuse, 4A |
| 2 | Fuse clips |
| 2 | 3" AWG 14 wire |
| 1 | 3" AWG 22 wire |
| 1 | Current transformer, 1:300 |
| 1 | Gate drive transformer |
| 1 | Line transformer (110V/220V as appropriate) |
| 2 | 14 pin socket |
| 2 | 8 pin socket |
| 6 | Brass right-angle bracket |

| Qty | Item |
|-----|-----------------------------------|
| 6 | Solder-in M3 brackets |
| 2 | 10mm M3 screw |
| 2 | UCC37321 gate drive |
| 1 | 7414 Hex Schmitt-trigger inverter |
| 1 | Dual D-type flip flop 7474 |
| 1 | 7805, 5V regulator |
| 1 | 7815, 15V regulator |
| 1 | Bridge rectifier, 400V 6A |
| 1 | Bridge rectifier, 50V 1A |
| 1 | Optical receiver |
| 2 | 1N4148 signal diode |
| 2 | IGBT, 120A 650V |
| 2 | Sil-pad |
| 4 | M6 nut |
| 2 | 25mm M6 hex-head bolt |
| 3 | 14mm M3 machine screw |
| 15 | M3 nut |
| 10 | 25mm M3 standoff |
| 4 | 6mm M3 standoff |
| 26 | 6mm M3 screw |

Foam

Spun aluminum toroid
Secondary coil
Heat sink

SD Interrupter

SD interrupter PCB with soldered SD card connector
Plastic SD chassis set
10 ft optical fiber

Qty Item

| | |
|---|-----------------------------------|
| 1 | Crystal, 16MHz |
| 3 | Capacitor, ceramic 1uF |
| 2 | Capacitor, ceramic 18pF |
| 2 | Resistor, 10kΩ 1/4W |
| 1 | Resistor, 100Ω 1/4W |
| 4 | Resistor, 1kΩ 1/4W |
| 1 | Resistor, 3.3kΩ 1/4W |
| 1 | Resistor, 220R 1/4W |
| 1 | Resistor, 100kΩ 1/4W |
| 1 | Header, 0.1" 16 position (male) |
| 1 | Header, 0.1" 16 position (female) |
| 1 | MIDI jack |
| 2 | CR123 battery holder |
| 2 | Slide switch |
| 3 | 30mm tall tactile switch |
| 1 | LCD screen |
| 1 | ATMega328, programmed |
| 1 | 74HC4050 IC, level shifter |
| 1 | 4N25 optoisolator |
| 1 | 6 pin socket |
| 1 | 16 pin socket |
| 1 | 28 pin socket |
| 1 | Regulator, 5V TO-92 |
| 1 | Regulator, 3.3V TO-92 |
| 1 | Optical transmitter |
| 1 | 1N4148 signal diode |
| 4 | 6mm standoff M-F |
| 4 | 13mm standoff F-F |
| 4 | 14mm M3 screw |
| 4 | 6mm M3 screw |