

# Iphone6 backlight repair kit

Change all the parts included in the kit

1/f12025 2/f12024 3/f12026 these are the fusible inductors the value of these components have been specially chosen to match the current flowing through the iphone6 backlight and to offer protection to the more valuable logic and power components in the event of water or other types of damage these parts can be changed with a soldering iron set to 330deg and solderwick

4/d1501 this is the rectifier diode which converts the sinusoidal (waveform) output from the coil into a rectified dc voltage to power the backlight change this part also at 330deg with the soldering iron this part must be fitted in one direction (note the diagram below one side of this component is indicated with a red mark the white band on the diode in the kit corresponds to this red mark and must be fitted facing the same way)

5/l1503 this is the coil often called a tank or reservoir coil when a switching or ac type voltage is developed across it it can store and release it at a higher voltage and lower current. the coils within are isolated from each other but failure of the diode can generate heat causing parts of the coil to short out causing a greater current flow within a replacement diode and thus causing premature failure of diode and / or filters after some months or weeks of use. This is why it is always good practice to replace the full kit

It is possible to remove the coil / using a high power soldering iron at around 400w with the low melt solder provided within the kit however it is much easier to remove and replace using hot air at around 350deg when resoldering the coil normal temperature leaded or unleaded solder must be used

