iFIXIT

How to repair the MagSafe Magnetic End

This guide shows a short step by step process of repairing a broken MagSafe charger at the magnetic end. It won't be pretty, but it will work.

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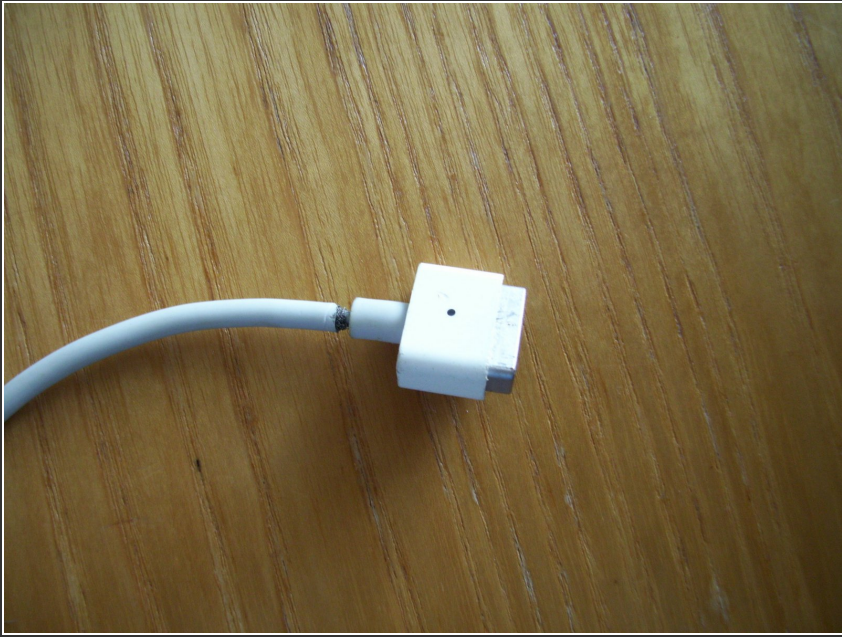This document was generated on 2020-11-17 06:16:07 AM (MST).

INTRODUCTION

As you can see by the photos, I took a broken and otherwise useless magsafe end and made a splice. After a resolder, the LED shows the computer charging.

🔧 TOOLS:

- Large Needle Nose Pliers (1)
- iFixit Tech Knife (1)
- Soldering Iron (1)
- Sugru Moldable Rubber (3 Pack) (1)

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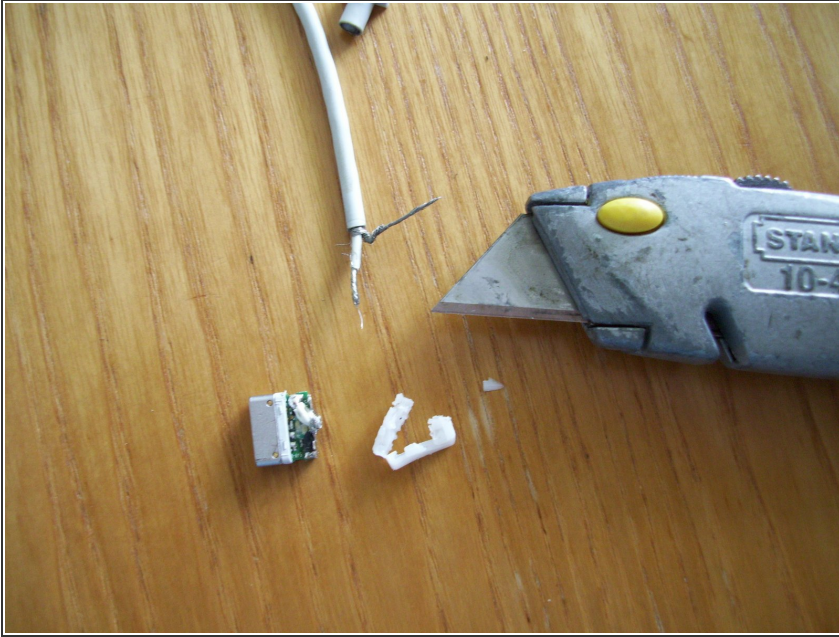## Step 1 — How to repair the MagSafe Magnetic End

- This is a hyper extended end of a magsafe. It is no longer working due to the wire having pulled apart.
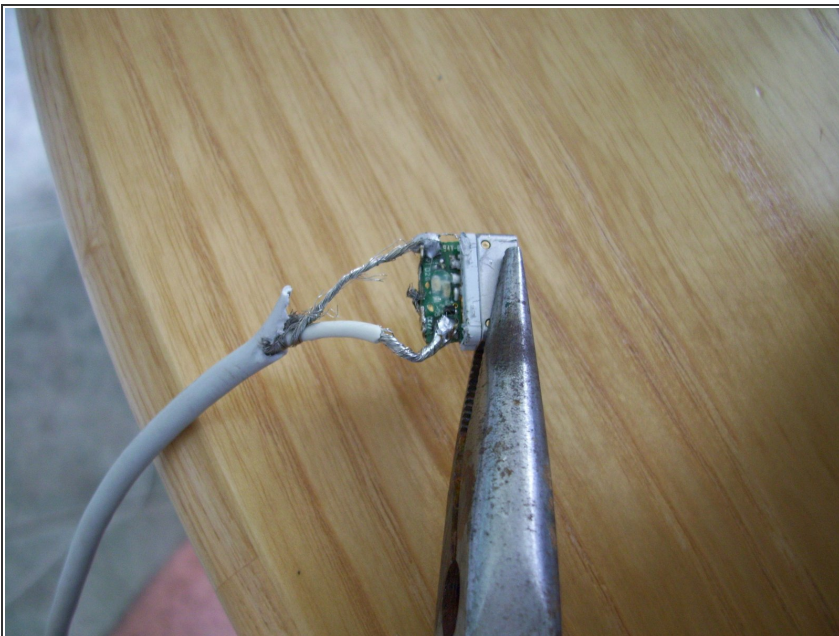
Step 2

- Use wire cutters to cut the wire of the magsafe some distance back from the magnetic end. I cut about 4 inches back. You can get much closer like maybe an inch, as you will see in the next step.

Step 3

- I used a utility knife to cut the nice white cover off the tiny printed circuit board. There is a molded plastic cover similar to hot glue which had to be stripped off the PCB.

Step 4

- 1.) Take the good end of the existing wire and strip it.

- 2.) The interior wire, which is coated in white should be soldered on a square metal plate about one eighth inch square. This plate is opposite a small chip for reference.

- 3.) The braided wire coats the white interior wire, and is wrapped around it in two different directions. This wire should be peeled off and then twisted together.

- 4.) Then solder it in place opposite the chip and the other wire.

Step 5

- Plug in wall outlet and install on computer to test.

⚠️ At this point there are still exposed live wires carrying DC voltage. To eliminate risk of shock or shorting, cover the bare wires in [electrical tape](#), [heat shrink tubing](#), or [Sugru](#).

To reassemble your device, follow these instructions in reverse order.