



# Canon Speedlight 430EX II LCD Replacement

This guide explains how to replace an LCD in a Canon Speedlight 430EX II flash. This guide requires advanced skills similar to replacing LCD in iPhone/iPod.

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 **TOOLS:**

- Small Needle Node Plier (1)
- Set of mini screw drivers (1)
- iFixit Tech Knife (1)

 **PARTS:**

- Canon replacement LCD for Speedlight 430EX II (1)

## Step 1 — Before you Start



- My Speedlight 430EX II was still working perfectly with only the LCD display cracked. The back-light was also still working.
- Order a genuine replacement part from [www.DHcameras.com](http://www.DHcameras.com).
- Make sure you have a very good set of tools. The screws on this flash are very soft and a none matching driver will strip them.

## Step 2 — Remove Flash Base



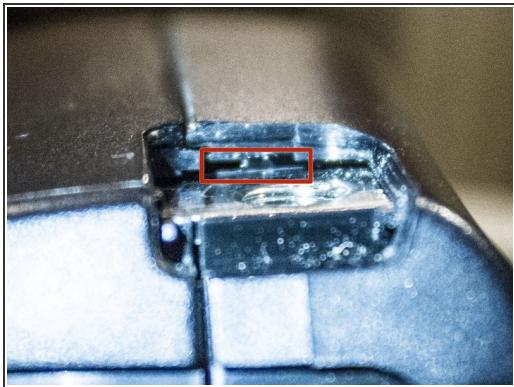
- Remove batteries
- Remove the 4 screws at the bottom of the flash
- Remove mounting cap on the side of the flash
- Carefully unplug the socket from the circuit board.

## Step 3 — Open Casing



- Turn the flash head 90°.
- Remove both screws right below the 75 mark. These are the screws holding the smaller back casing in place.

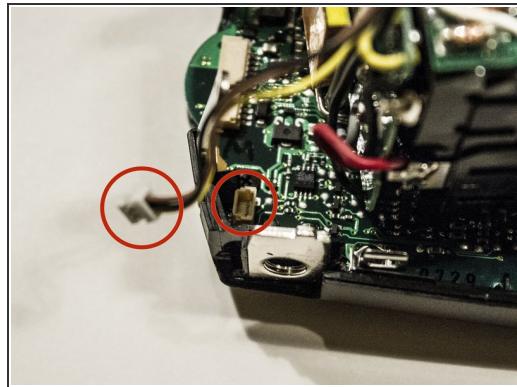
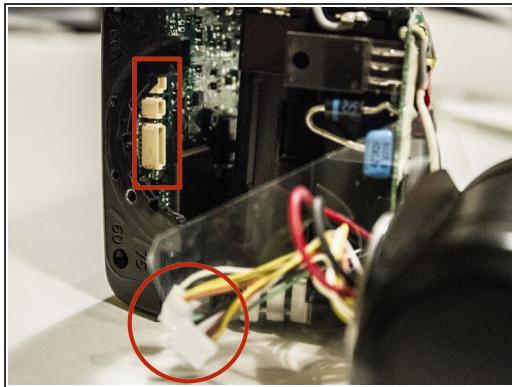
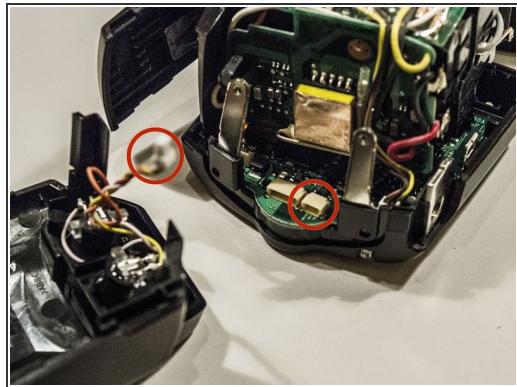
## Step 4 — Pry open Case



**⚠ READ THIS!!!!** This is not a "the bigger the hammer the smaller the problem" step. You mess this up and you will need to duck-tape your flash back together. Also...: make sure you don't snap a plastic tool.

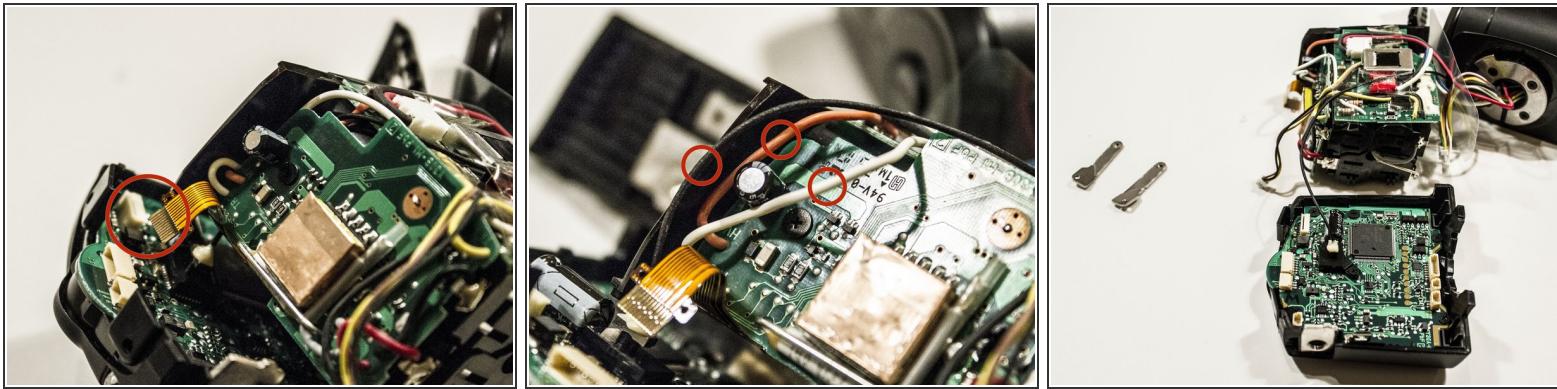
- Looking flat into the opening you should see a metal part far in.
- With a flat driver try to get between the plastic casing and this metal part to pry it out of the locking notch.
- Image 3 illustrates the metal tab you need to press down for the side to open.
- One more time: Make sure you are getting between the casing and the metal tab. Inserting and twisting a small screw driver worked for me after a few tries.

## Step 5 — Unplug Wires



- Remove front casing with infrared sensor by removing one plug.
- Detach 3 wires going from flash head to circuit board.
- Remove brown and yellow wire from circuit board connecting the battery case.

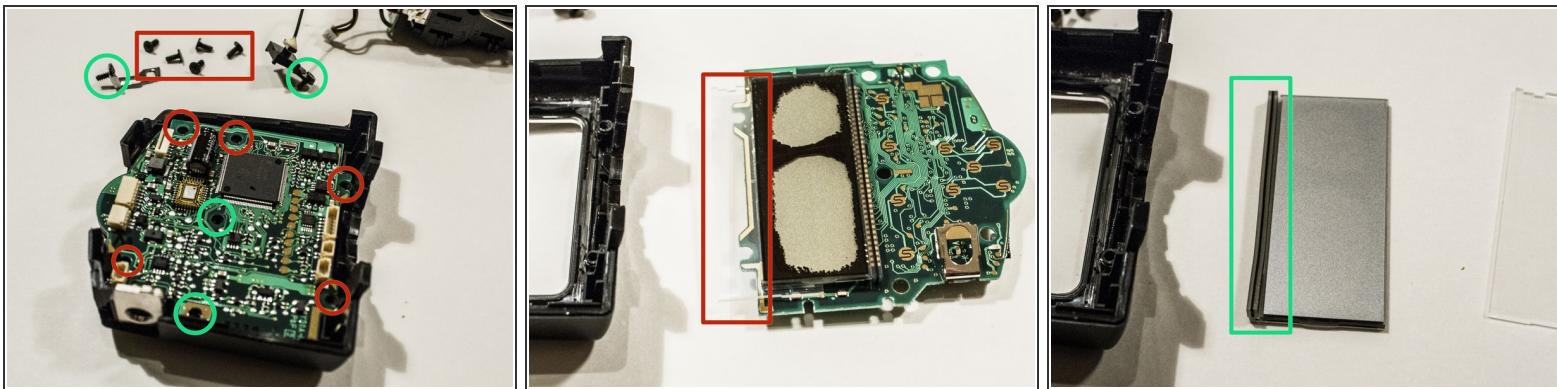
## Step 6 — Access LCD Circuit Board



**⚠** Gently pull flat band out of the circuit board mount. You might use the pliers but don't bend the band.

- Move the 3 wires out from the gap between the casing and circuit board.
- First: White
- Second: Orange
- Third: Black. This is the one we need to free.
- Now the back casing with circuit board should come lose. Only attached by the black wire.
- Also pull out the 2 metal mounting plates.

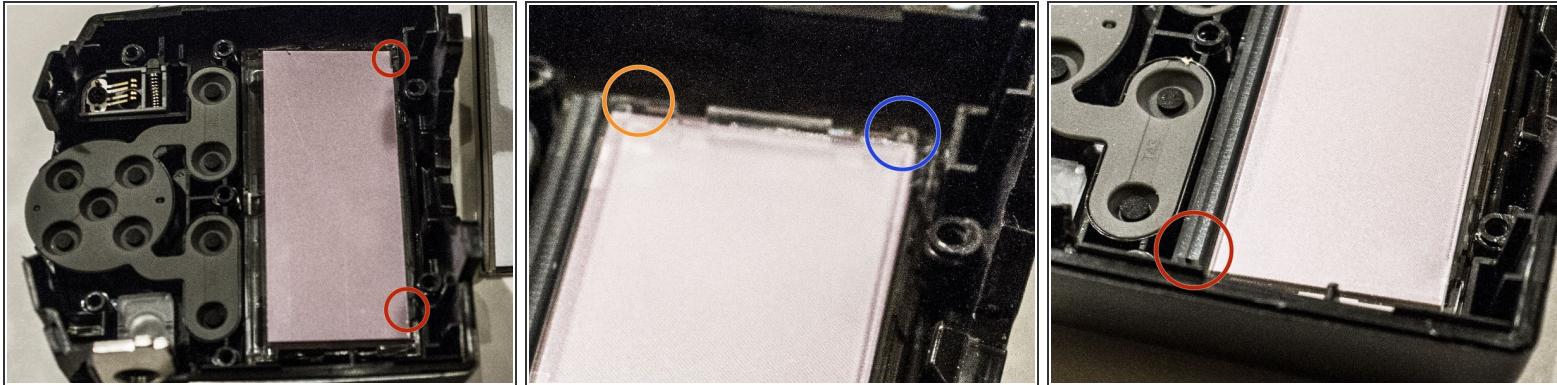
## Step 7 — Remove old LCD



- Remove 5 screws holding the circuit board.
- Remove screw holding metal tab. The screw is different than other 5. Make sure you leave it in the tab.
- Remove screw holding plastic cap. Keep screw in the cap as it is a different size.
- Take the circuit board out of the casing flipping it over.
- There is a clear plastic plate (red) between the LCD and the circuit board. It might fall out. It is used to distribute the back-light.

**⚠** Pull the old LCD off carefully. Make sure not to tear the rubber band (green). This is used to transfer the signals from the board to the LCD.

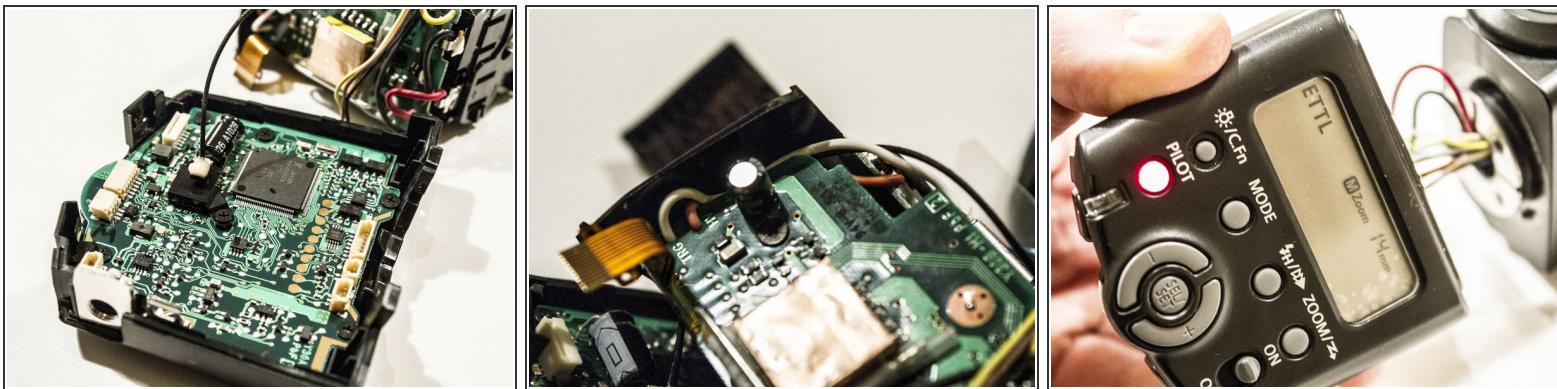
## Step 8 — Install new LCD



**⚠** Cut the side of the plastic wrapping of the new LCD. Slide it out of the plastic bag directly into position. Make sure you don't touch surface with your fingers.

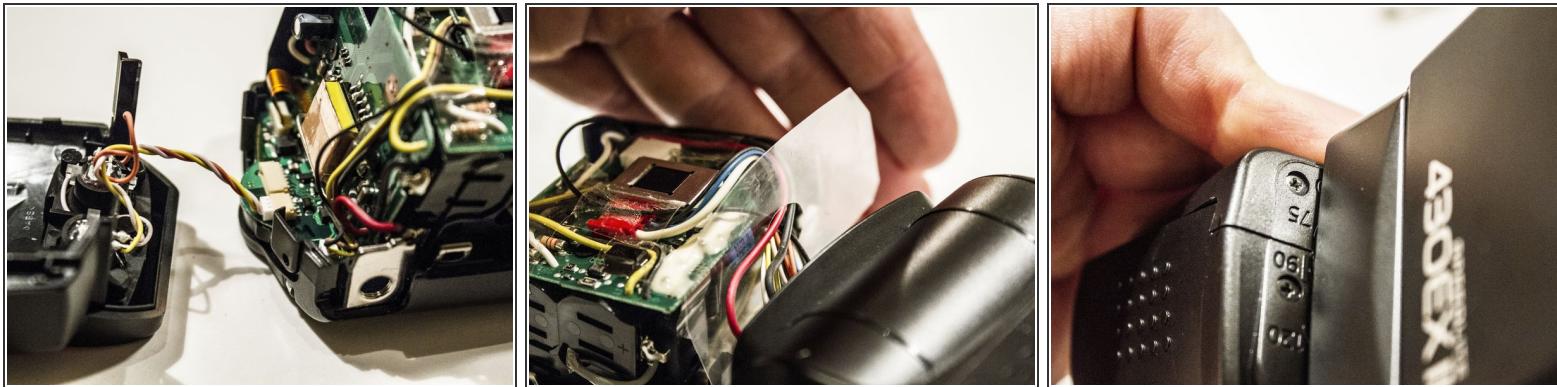
- There are 2 tabs (red) the new LCD needs to slide under.
- Now place the clear plastic plate on top of the new display. **MAKE SURE** it is in the correct orientation. In the image the **BLUE** notch is a bit larger than the orange one.
- Press the edges of the plastic lightly and it will snap into the case.
- Remove the rubber band gently from the old LCD and place it into the groove (image 3, red). Make sure it is aligned correctly.

## Step 9 — Re-assemble and Test



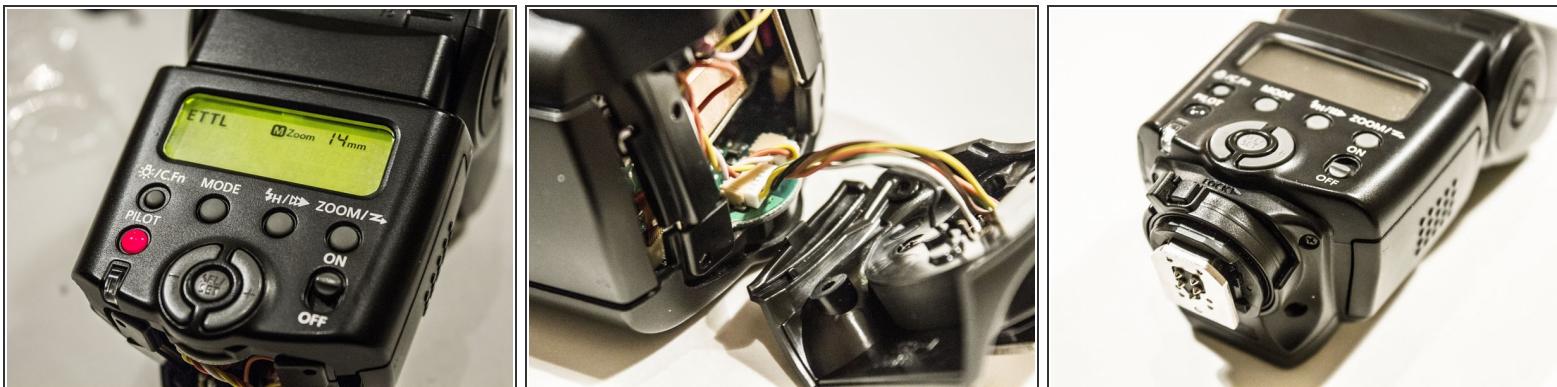
- Place circuit board back into the casing and attach all screws.
- If positioned correctly the rubber band will make connection between the new LCD and the board.
- Push the wires back between the side casing and the circuit board. The order is now reversed: 1st Black, 2nd Orange, 3rd White.
- Re-attach all connectors onto the circuit board except the flash base.
- Insert batteries and hold the cap closed with your fingers. It will not snap closed until the casing is back together.
- Turn on the flash and check if the LCD works. Push the back-light button (above Pilot) to make sure it works.
- After the test remove batteries.

## Step 10 — Close Casing



- Re-attach the front casing wire for the infrared sensor.
- Make sure the plastic foil is back in place the correct way around.
- Put the flash head back between casing halves and snap them together.
- Attach them with the top screws by the 75 marks.

## Step 11 — Final Test and Done



- Run one more test by inserting batteries. The battery cap should now snap closed.
- Turn the flash head and make sure all mechanics work including the tilt.
- Re-attach the wire of the flash foot and put in the 4 screws.
- Congratulations!!! You just fixed your speed light LCD.

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