**Fast Fix**: LCD Panel for an Apple LED Cinema Display 27inch 2010

**Team tag**: YORK-O'REGAN-W21S1G15

**Camera**: iPhone 12 Pro Max (12 Megapixels)

**Group email addresses**: [jk1@my.yorku.ca](mailto:jk1@my.yorku.ca)

**Name and word count:** Iason Kotakis, 665 words

Hello iFixit,

For my Fast Fix Project, I will propose to make a record of the process of repairing an Apple LED Cinema Display 27inch 2010. Moreover, I will give detailed information about the process, tools, safety of the Display replacement.

**Title:**

The proposed title for my guide is: **How to Repair an LCD Panel for an Apple LED Cinema Display 27inch 2010**.

**Procedure:**

Repairing a broken LCD panel is relatively straight forward process for this product that with a few tools can easily be replaced. My guide will follow the outline below:

1. Apply the necessary safety equipment by putting an ESD wrist wrap and protective gloves.
2. Lay the unit on its back and press with clean suction cups in opposite corners on glass panel.
3. With a T10 screwdriver, we start unscrewing the twelve (12) screws around the perimeter of the LCD panel. (picture X shown)
4. Using the black pull tabs on the bottom, raise the bottom edge of LCD a few inches to access cables inside. (Picture Y shown)
5. Looking into the gap under the LCD, we disconnect four (4) cables; 1. DisplayPort,

2. Function cable, 3. Ground pin, 4. LED backlight driver. (Picture Z shown)

1. Lift the LCD panel off rear housing.
2. Fit the replacement LCD panel to the rear housing and follow the steps in reverse.

**Tools:**

I will use an iPhone 12 Pro Max to take high-quality photos for the procedure. I plan to use

the following tools in my guide:

* ESD wrist strap
* Suction Cups
* T10 screwdriver
* New LCD Display Panel

**Why This Guide is Needed:**

I believe this guide is needed because a broken/defective LCD panel on those models can easily be accessed and replaced with a few tools. Additionally, due to Apple not supporting those machines anymore due to their age; This way the individual will have the opportunity to fix their machine instead of throwing it away which lead to further pollution of our environment.

**Existing Repair Information:**

I have found a few resources that could cover different methods for repairing an LCD panel. The resources that I have found focuses on videos or detailed pictures of the process. Some of these resources also differ greatly as there multiple ways to open a Display as well as handling process. I intend to create a guide that can be followed easily, with photographs of each step and by documenting my process, I will also be able to provide the recommended safety measures and precautions during such repair.

**Alternative Topics:**

If my LCD Panel for an Apple LED Cinema Display 27inch 2010 is not an option, I would like to work on one of the following repairs:

* **How to fix a Nintendo Switch Joy-con**

I would replace the joy-con’s joystick which many individuals have reported to malfunction after extended times of usage.

* **How to fix a Oneplus 5t Fingerprint Scanner**

I would show step by step with illustrations on how to replace the fingerprint reader from a Oneplus 5t phone.

**Repair Experience Inventory:**

In my repair experience as a repair technician which involves electronic components, many individuals tend to feel uncomfortable and uneducated to perform a repair on their own, therefore I believe that showing my skillsets with a user-friendly guide will lead to more individuals into researching their problems, resulting into awareness that the “customer” does not always have to conclude into a costly repair by the manufacturer.

Thank you for your consideration and I am thrilled contributing to iFixit, as I believe that I can build a guide that will meet the individual’s criteria to feel comfortable to perform such repair by themselves. Please let me know if I can proceed, or if I need to make any changes to our proposal before moving forward.

Regards,

Iason Kotakis