



# MacBook water damage diagnostic

(1) MacBook water damage is not easy to repair,...

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MacBook Water  
Damage, don't  
panic. Here's  
what you need  
to know.



## INTRODUCTION

- MacBook water damage is not easy to repair, even minor spills can present advanced issues requiring lots of tools and expertise. Self repairing MacBook water damage is doable, however if you are a novice read this entire post to ensure you don't get in over your head. Beware of any advice telling you to simply allow it to dry or clean it with alcohol, modern MacBooks have many components that can be damaged by a spill. This guide will explain all you need to know about MacBook water damage and how to analyze whether or not to attempt self repair or find an expert to handle the repair for you\*\*\*\*

## Diagnosing MacBook water damage

It's safe to assume that if you are here then you, or someone you know, has experienced MacBook water damage. If you are like most folks you packed up your soggy Mac and made your way to your local Apple Store, waited in line only to be told that they won't touch a Mac that has been exposed to liquid. They may offer you a "Tier 4 Repair", to the tune of \$1240.00. Understandably, these options don't sit well with most consumers, so you rush home and begin to scour the web for a solution. If you're here then you're in the right place, let's get started -



### TOOLS:

- [Pro Tech Toolkit](#) (1)
- [STEREO MICROSCOPE \(Optional\)](#) (1)
- [Soldering Workstation](#) (1)
- [Ultra Sonic Cleaner](#) (1)
- [Isopropyl Alcohol](#) (1)
- [Hot Air Rework Station Hakko FR-810](#) (1)

*Optional*



### PARTS:

- [MacBook Pro 13" Retina \(Early 2015\) Display Assembly](#) (1)
- [MacBook Pro 13" Retina \(Early 2015\) 2.7 GHz Logic Board](#) (1)
- [MacBook Pro 13" Retina \(Late 2013-Mid 2014\) Upper Case Assembly](#) (1)

## Step 1 — Thorough Diagnostic – Any MacBook that is exposed to liquid requires a thorough inspection.



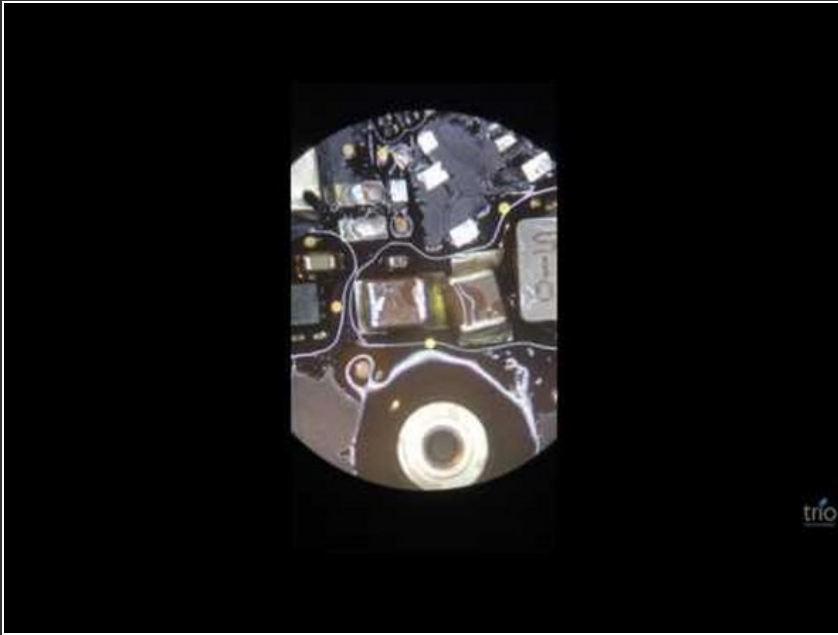
- Any MacBook that is exposed to liquid requires a thorough inspection, even a small amount of corrosion untreated can cause a system failure further down the road. You will need to completely disassemble your MacBook to ensure a thorough diagnostic. Here is an idea of what you can expect in a disassembly.

## Step 2 — Inspect Keyboard and Track Pad for ANY corrosion or sticky residue – If found a keyboard or trackpad replacement is recommend



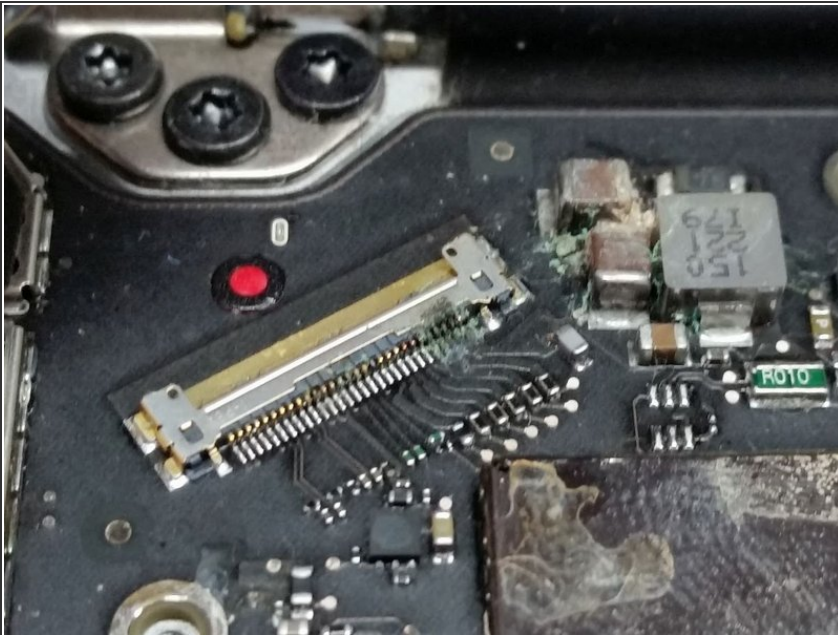
- Inspect Keyboard and Track Pad for ANY corrosion or sticky residue – If found a keyboard or trackpad replacement is recommend. Keyboard prices and installation very by model and can be VERY challenging, so be sure you know your MacBook's model number and year in order to buy the right parts.

### Step 3 — Inspect Main LogicBord for any sign of liquid exposure.



- Inspect the Main LogicBord for any sign of liquid exposure. This should be done with a high powered stereo microscope, each SMD component should be checked for any signs of damage. If damage is found logic board should be cleaned ultrasonically and damaged SMD components replaced. This video will show you what MAY be required to repair your MLB.

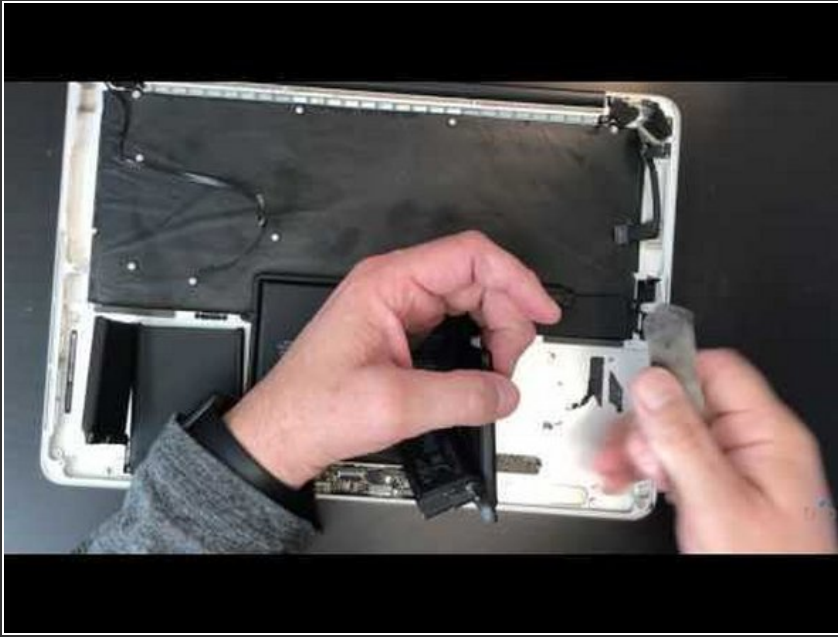
### Step 4 — All display connections and wiring should be thoroughly inspected, any sign of liquid exposure and the display replacement rec



- All display connections and wiring should be thoroughly inspected, any sign of liquid exposure and the display replacement recommended. If you see something like this, you may have issues with the display. Remember, all MacBook displays are sealed units and require advanced equipment and skills to correctly repair.

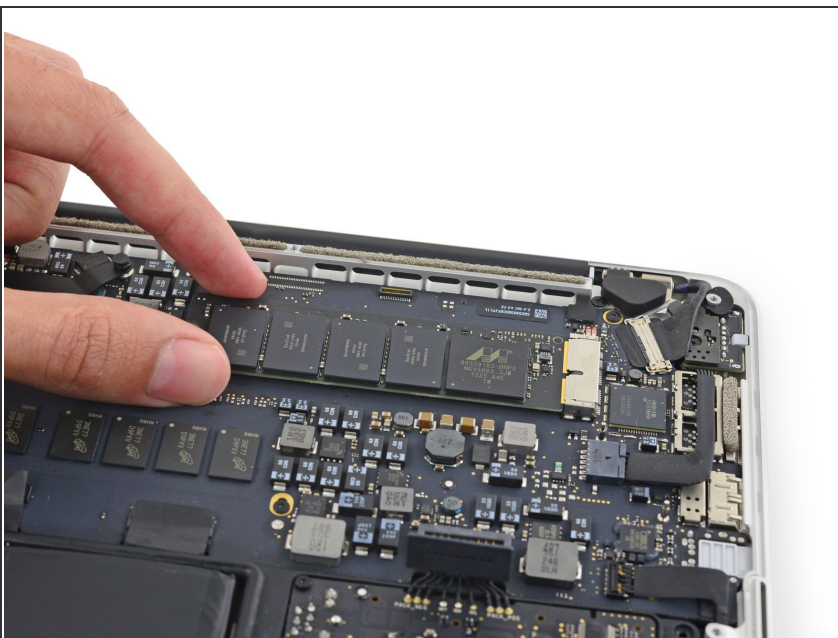


## Step 5 — Test the battery



- Batteries are often victims of liquid spills and can be very challenging to replace. Battery installation varies from model to model. Here is an example of what you can expect.

## Step 6 — Data Integrity – Data integrity should be checked and re checked.



- Data Integrity – Data integrity should be checked and re checked. In the vast majority of cases data is not effected. If corrosion is present on SSD or HD replacement is recommended. You can purchase an enclosure to recover your data in the event the MacBook is not repairable.

**Step 7 — Now that you have completed the diagnosis of what was damaged by the spill, it's important to think before you act.**



- There are many resources to assist in the self repair of MacBook water damage, just make sure you take your time and ensure you have a good grasp of the task ahead of you. If you feel you may be in over your head it's always your best bet to find a repair company familiar with MacBook water damage. Good luck!

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