



Sony DVD-ROM Unit(DDU1615) Teardown

This is a tutorial on how to perform a teardown of this DVD-ROM Unit. Many people perform this to remove the laser diode.

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INTRODUCTION

I will teach you how to deconstruct a DVD-ROM unit into it's base assembly and then show what many people use to build a burning laser.

TOOLS:

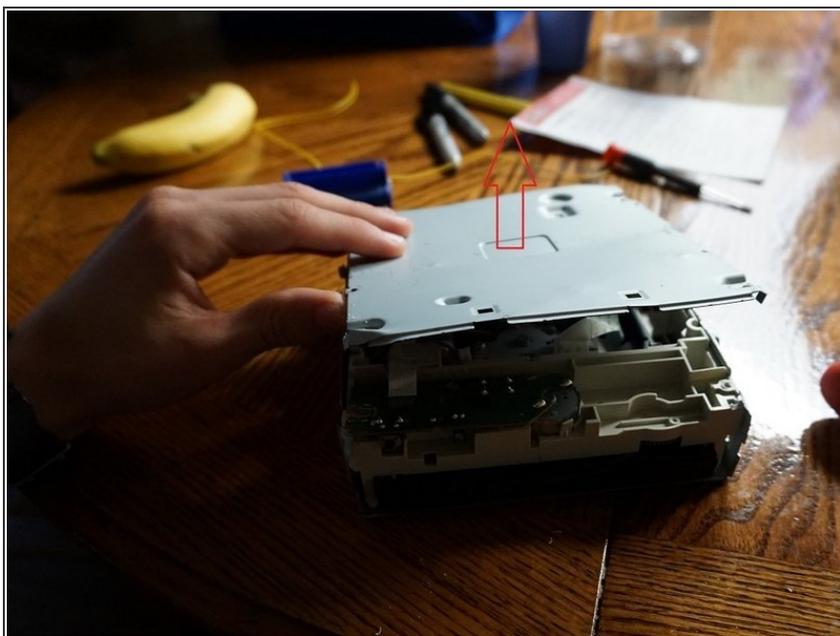
- [M3x6 fitting screwdriver](#) (1)
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Step 1 — Sony DVD-ROM Unit(DDU1615) Teardown



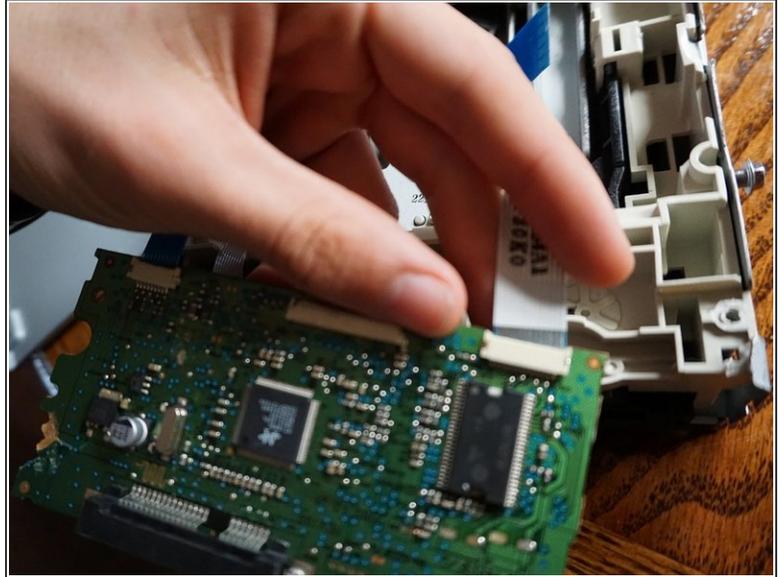
- Remove outside screws using a screwdriver that fits a M3x6 screw

Step 2



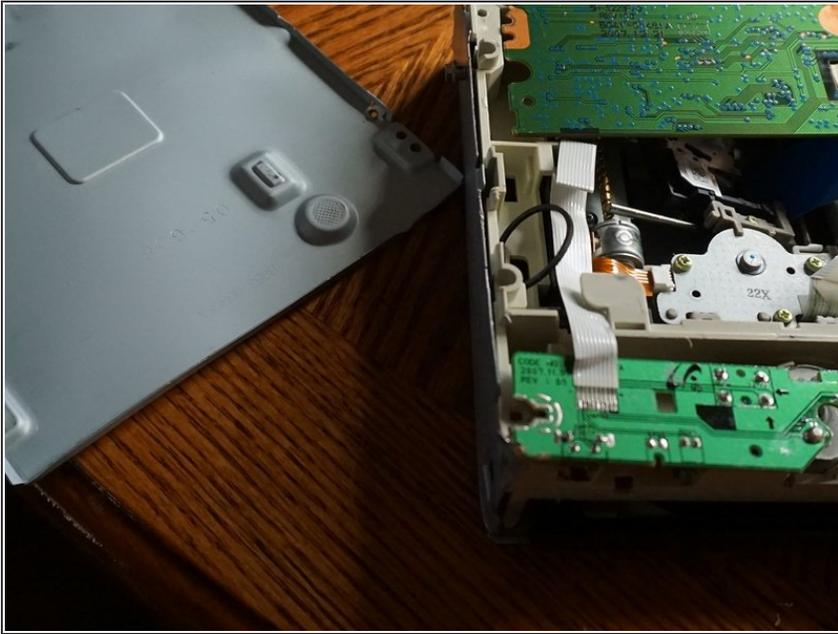
- Gently pry up the top casing with the model sticker facing down. Apply a wiggling motion side to side if necessary

Step 3



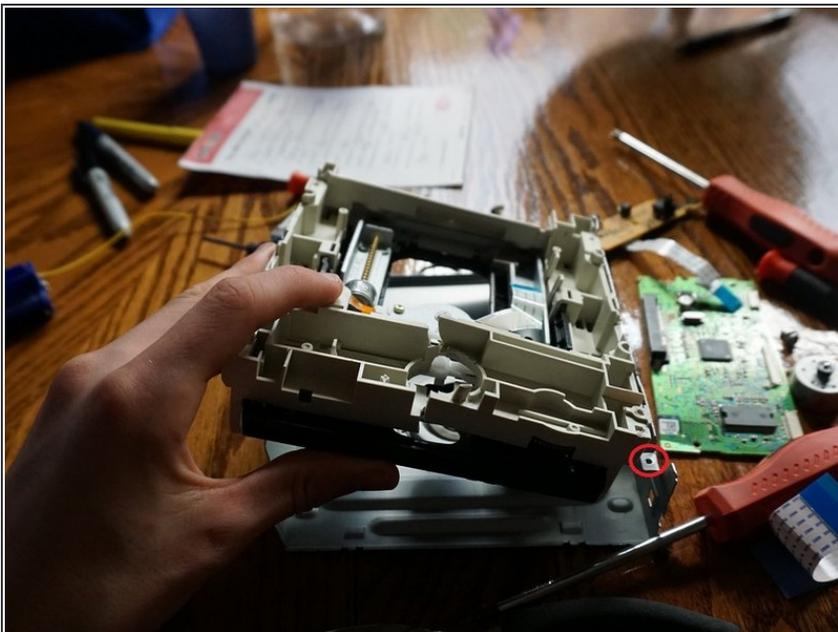
- Remove all detachable ribbons by wiggling back and forth on a horizontal axis

Step 4



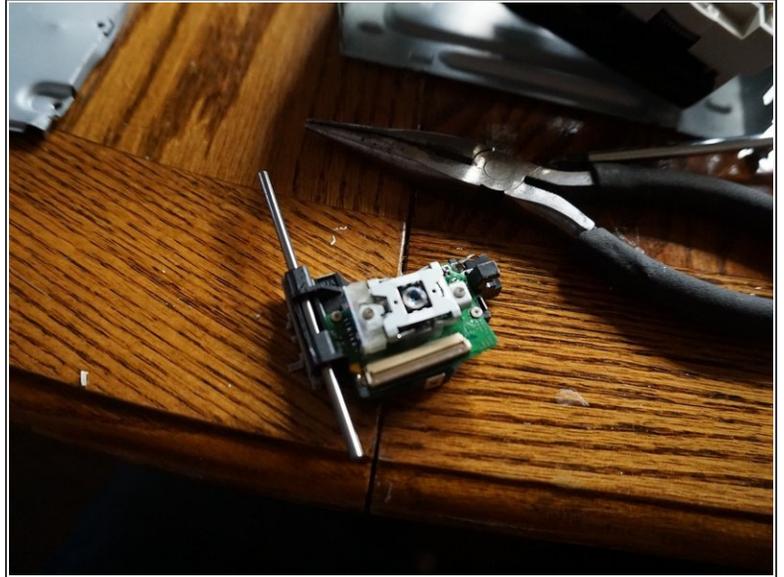
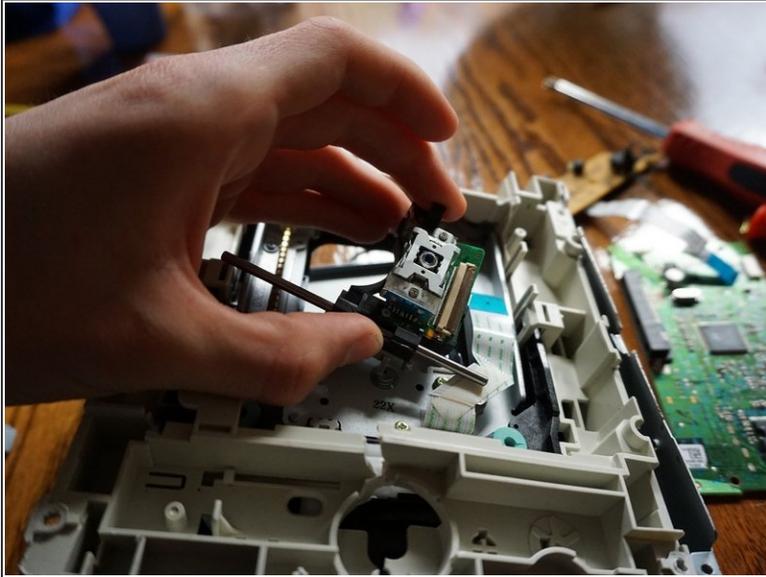
- Check for any remaining screws around the edge of the board, if there are none apparent double check the ribbons and the slide the board back until it slides free

Step 5



- To remove the tan plastic, ensure all of the screws have been removed on the metal tabs shown in red
 - apply a teetering pull apply more lift to one side than the other
- ⚠ My part was already broken! It might be slightly different for you

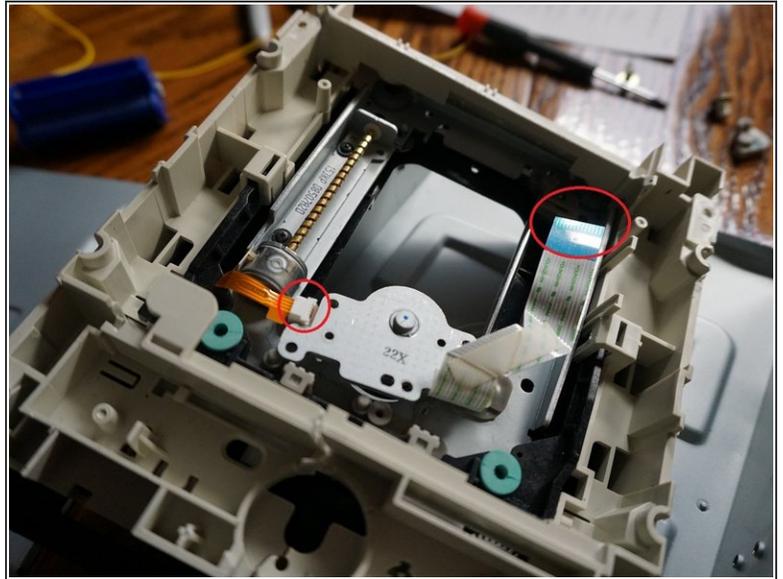
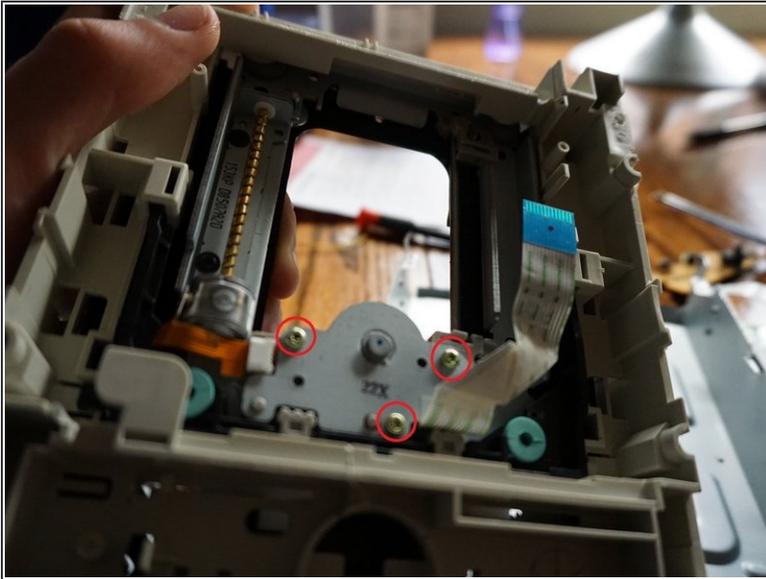
Step 6



- Now most inside components should be loose and removable
- This is a picture of the removal process of the laser diode component(it is still encased in the moving and refraction related parts)

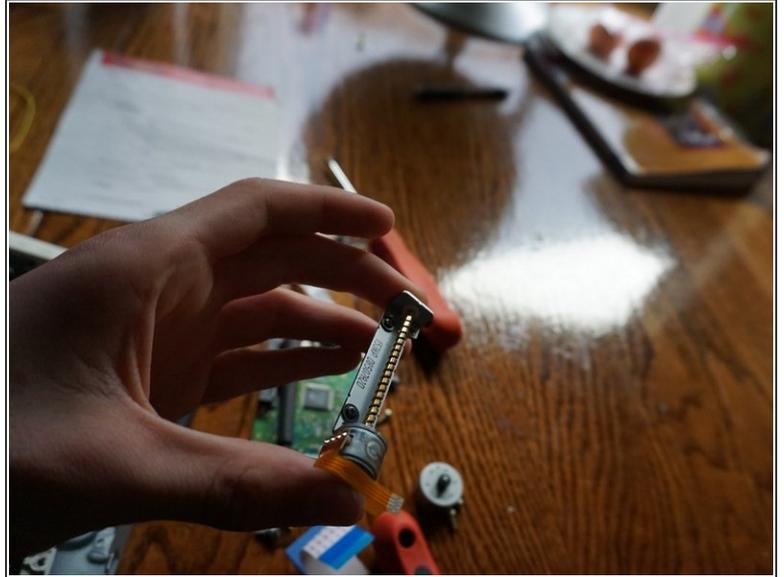
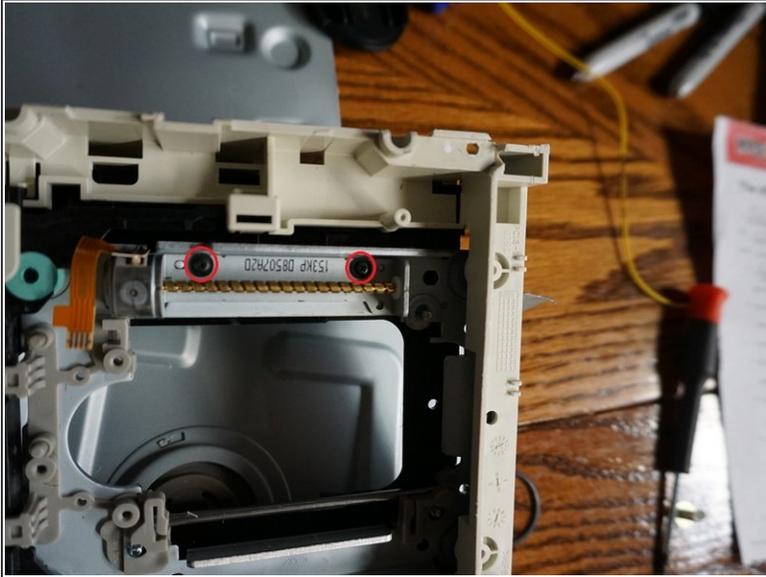
⚠ Ensure to hand this with care!

Step 7



- Remove the three screws surrounding the second component
- Remove and check for removal of all ribbons on this component(note the orange is labeled "lead free")

Step 8



- Undo the screws on the side of the stepper component with A DIFFERENT SCREWDRIVER TO AVOID STRIPPING
- The screwdriver will be smaller than the M3x6 fit
- Gently extract after screw removal

Step 9



- flip the leftovers over and slide the peice of black plastic far forward to remove the screws holding the metal in place
- Slide the disk tray back if you can not remove it completely and proceed to unscrew the final and 3rd screw.

⚠ You will need a different screwdriver! Use the wiggle test to find the right fit! They will strip extremely easily!

Step 10



- Gently remove any clips to allow the only holder to be the rubber wheels to be holding it(circled in red)
- Gently apply pressure to pull away from the main casing
- Un-clip the clips seen in photo 2

Step 11



- To remove the pole that was in the picture before it was removed, push down on the spring with a screw at one end removed the tilt one end up and remove
- To remove toothed gears push the clip inside the spire in the middle of the gear, and maintaining pressure on the clip pull away the gear
- Apply the same technique as in picture 2 but with the clip in picture 3

Step 12 — Finished!



- Your pretty much done with this deconstruction

⚠ If you wish to remove the laser diode be careful! Picture #3 is evidence of my failure to this