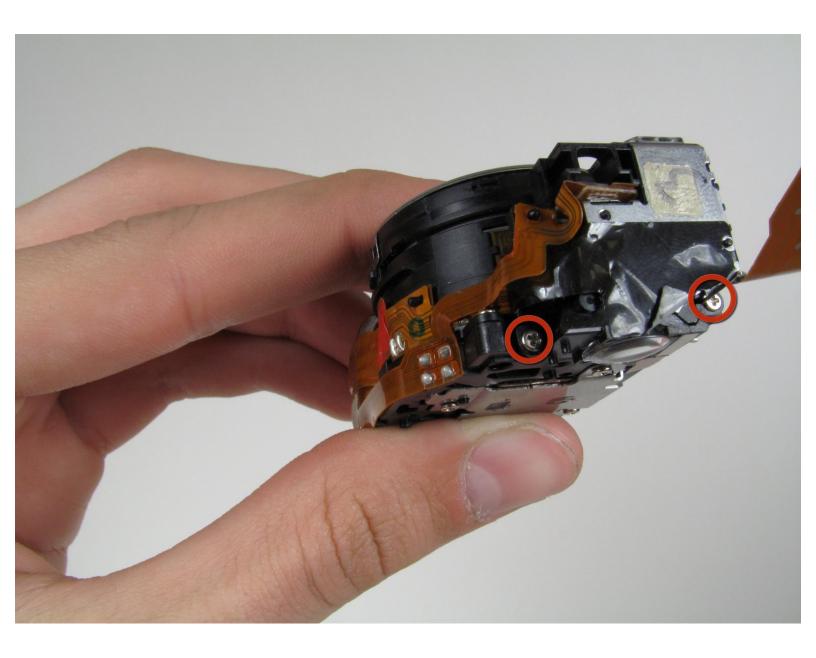


Canon PowerShot S500 Zoom Lens Replacement

Replace the Zoom Lens in your Canon PowerShot S500.

Written By: Nathan Balcom



This document was generated on 2020-11-20 08:06:09 PM (MST).

INTRODUCTION

This guide shows how to clean and remove the zoom lens.



TOOLS:

- Desoldering Braid (1)
- Phillips #00 Screwdriver (1)
- Solder (1)
- Soldering Iron (1)
- Spudger (1)
- Tweezers (1)

Step 1 — Front and Rear Casing





- Unscrew five Phillips screws using a #0 Phillips screwdriver.
- (i) One screw is on upper right corner of the back panel.
- (i) The other four screws are on the bottom of the camera.



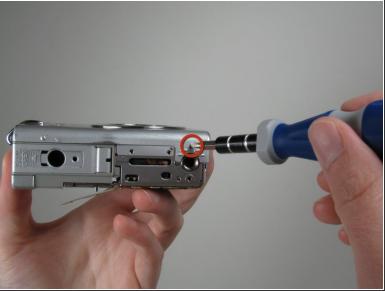
- Open the memory card cover by moving the slide switch toward the top end of the camera.
- Remove the memory card from the slot.



- Remove the rear cover from the rest of the camera.
- This may require gentle rocking of the case to free it.

Step 4



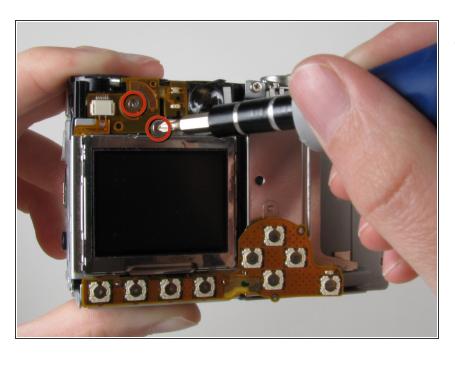


 Unscrew the four Phillips screws from the side of the casing and one screw from the bottom using a #0 Phillips screwdriver.

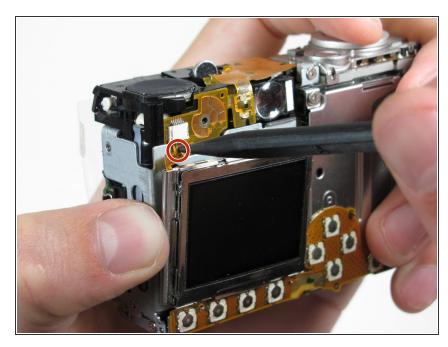


- Free the front cover from the rest of the camera.
- The cover may require gentle rocking to remove.

Step 6 — LCD



 Unscrew two Phillips screws above the LCD using a #0 Phillips screwdriver.



- Gently separate the top of LCD from the rest of the camera using your thumb.
- Be careful not pull the LCD too far because of the ribbon cable connection.
- Place the Spudger in the hole of the electrical ribbon.
- Gently pull the ribbon down using the Spudger until it is free from the camera but still connected to the LCD.
- i The LCD will still be connected to the rest of the camera





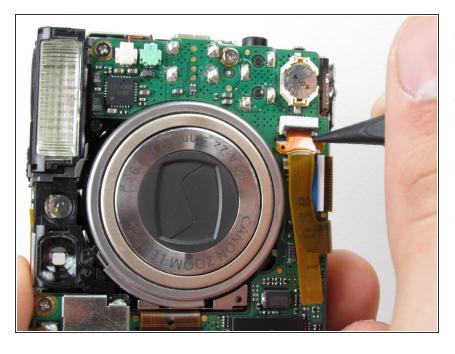
- Unscrew single Phillips screw with a #0 Phillips screwdriver.
- Free the bottom panel and attached ribbon from the rest of the camera.
- Be careful not to damage the ribbon.



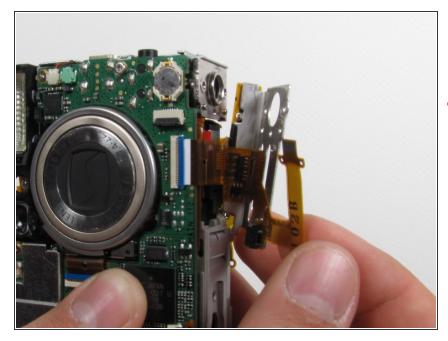
- Turn over the camera.
- Lift the clear plastic from the face of the camera, peeling the adhesive just below the zoom lens.
- i The plastic will still be connected on the left side.



- Place the Spudger between the orange ribbon and the black ribbon gate.
- Lift the ribbon gate using the Spudger.



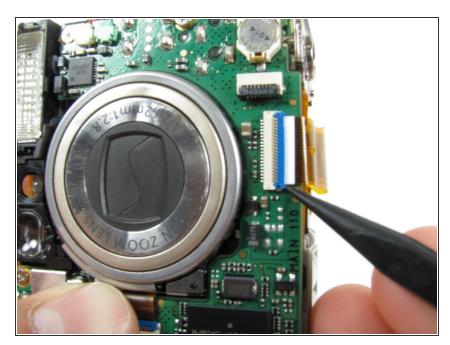
- Place the Spudger in the corner of the ribbon above the hole.
- Remove the ribbon from the ribbon gate by pulling the Spudger away from the gate.



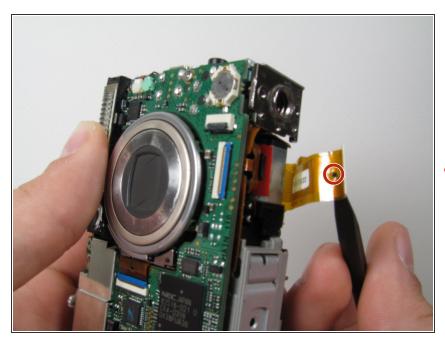
- Free this ribbon and the bottom panel from the rest of the camera.
- A Be careful not to damage the ribbon.



- Turn the camera over so you can see the LCD.
- Remove single Phillips screw below the LCD using a #0 Phillips screwdriver.



 Lift the blue ribbon gate using the Spudger.

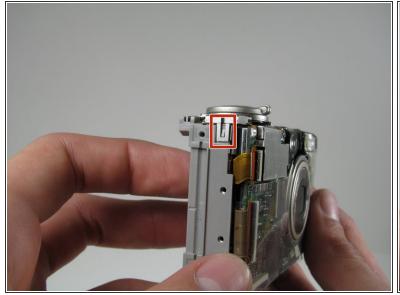


- Insert the Spudger into the hole of the ribbon.
- Move the Spudger away from the gate to fully remove ribbon.
- A Be careful not to damage the ribbon.



 Lift the LCD away from the rest of the camera.

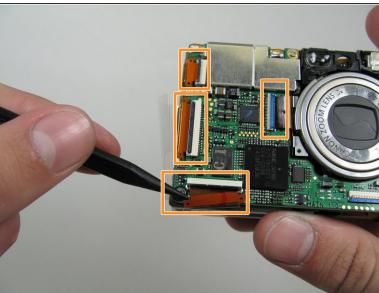
Step 17 — Logic Board





- Lift off the capture button by wiggling it back and forth while pulling upward.
- Be careful not to damage the two clips.



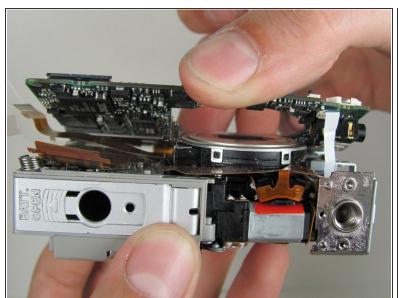


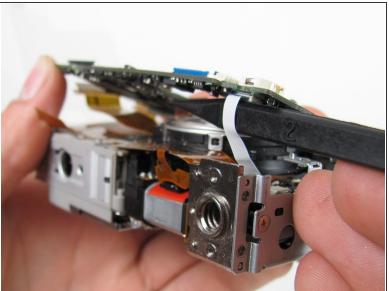
- Flip open the four ribbon gates using the Spudger.
- Gently pull out the ribbon cables from the gates using the Spudger.

Step 19

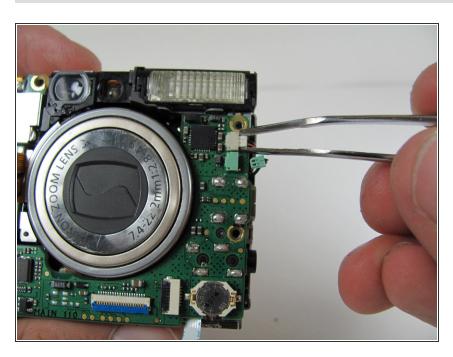


 Unscrew the four Phillips screws using a #0 Phillips screwdriver.



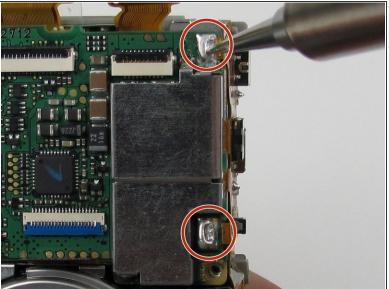


- Gently lift the logic board.
- ↑ Be careful not to pull too hard and damage the white ribbon cable.
- Place the Spudger so that it is between the logic board, the white ribbon cable, and the rest of the camera.
- Remove the white ribbon cable by pulling the Spudger away from the camera, keeping it parallel to the logic board.

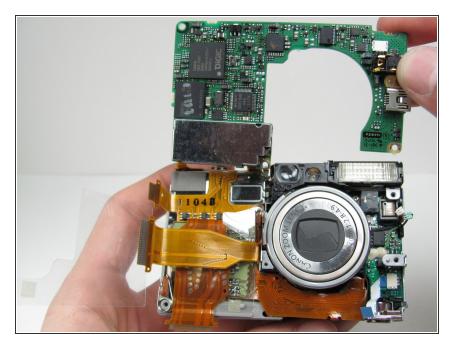


- Lay the logic board back down so that it is resting on the body of the camera.
- Pull the two plugs (white and green) out to the right from the logic board using the tweezers.



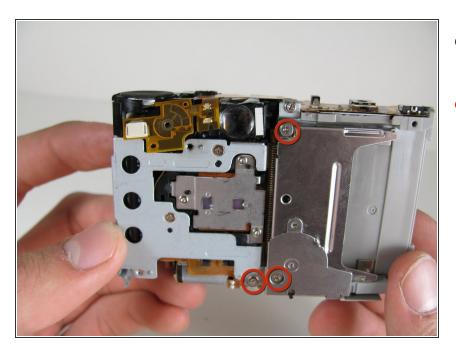


- (i) We're now ready to begin the desoldering process. You'll need a soldering iron, solder, and desoldering wick. You should be able to find these items at a Radio Shack if you don't already have them.
- Please do not perform this step if you are not comfortable or have previous experience with soldering. Doing so, could cause severe damage to your camera.
- Desolder the two soldered ribbon cables attached to the logic board.

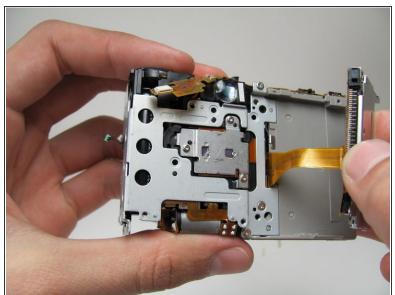


 Free the logic board from the rest of the camera.

Step 24 — Breakdown to Three Parts

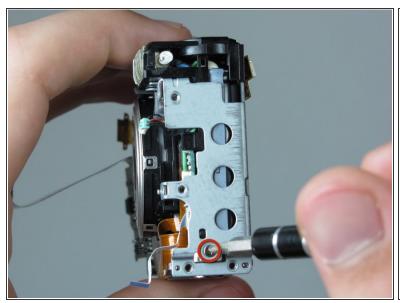


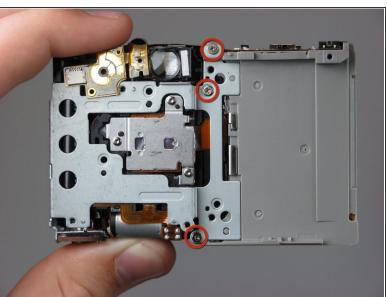
- Turn the camera over so that the back is facing you.
- Unscrew the three Phillips screws using a #0 Phillips screwdriver.



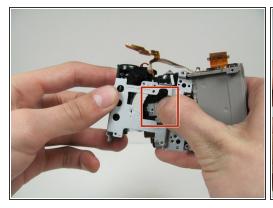


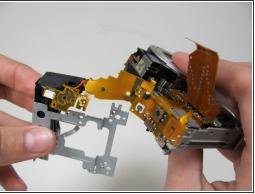
- Lift off the Memory Card casing, sliding the ribbon cable through the camera. Keep pulling until the Memory Card and ribbon cable have been removed from the camera.
- Note that the ribbon cable is coming from the external front portion of the camera. Make sure that the ribbon cable will not get caught on anything.

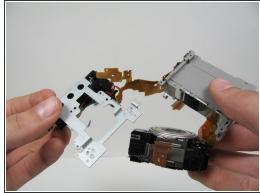




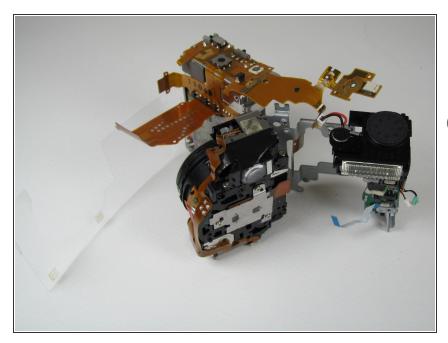
 Unscrew one Phillips screws from the side and three Phillips screws from the back panel using a #0 Phillips screwdriver.



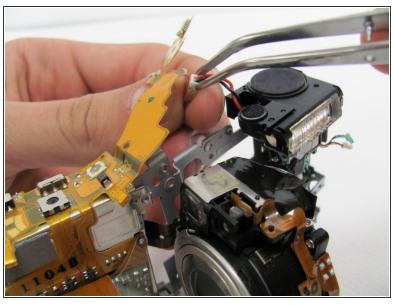


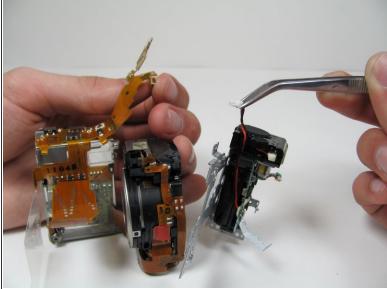


- Firmly push on the back of the zoom lens, removing it from the left portion of the camera.
- Lift the zoom lens away from the left portion of the camera so that there are three components connected by a ribbon cables.
- ♠ Be careful not to tear the ribbon cables.

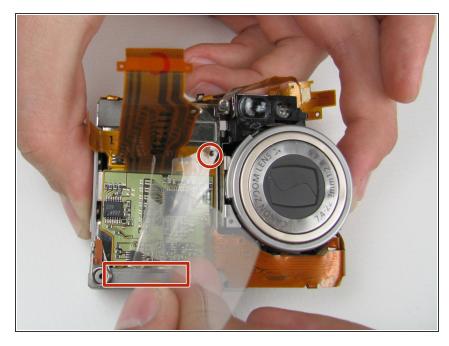


- The camera should now be able to be set in this orientation without too much stress on the cables.
- The clear plastic is still attached to the battery casing.

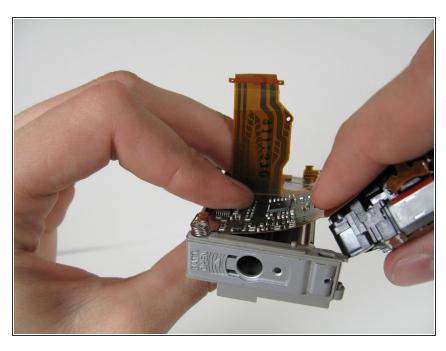




- Locate the ribbon cable going from the battery case to the flash assembly.
- Remove the plug from the ribbon cable using the tweezers.
- (i) The flash assembly is now free from the rest of the camera.



- Pick up the remaining battery casing and zoom lens.
 - Pull off the clear plastic.
- The clear plastic is secured by adhesive along the bottom edge and a small hook.

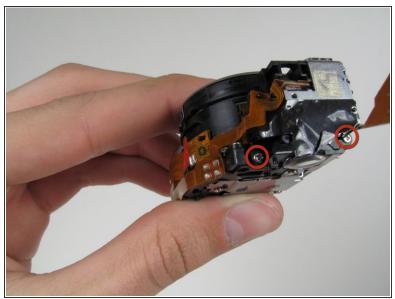


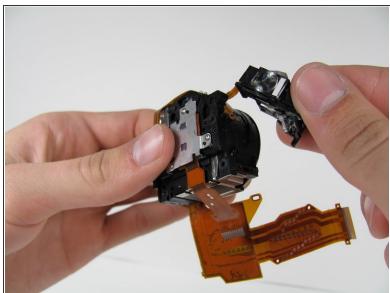
- Lift the zoom lens off of the battery casing.
- The back of the circuits are attached to the battery casing by a light adhesive, which can be removed with a slight pull upwards.



 The remaining pieces from left to right are: the battery casing, zoom lens and flash assembly.

Step 33 — Zoom Lens





- Pick up the zoom lens
- Remove the two Phillips screws using a #0 Phillips screwdriver.
- (i) Once the screws are removed, there will be two components connected by a ribbon cable.
- Be careful not to break the cable.

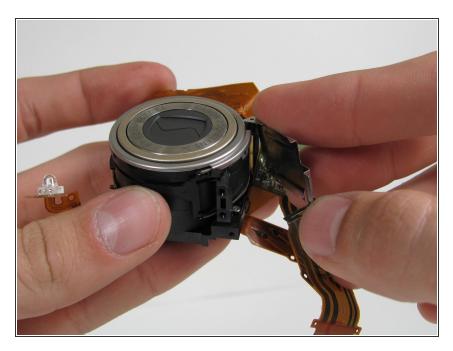


- Hold the two components back together.
- Remove the the LED from the circular socket by lifting the ribbon cable's end up and away from you.
- Unhook the lower part of the ribbon from the plastic pin.
- Now the two components are free to separate.

Step 35



Unscrew one Phillips screw, using a #0 Phillips screwdriver.

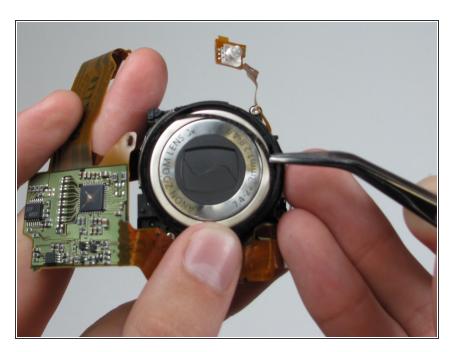


 Lift off the panel, exposing the zoom lens gear drive.

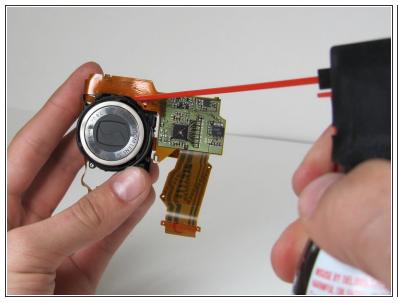
Step 37

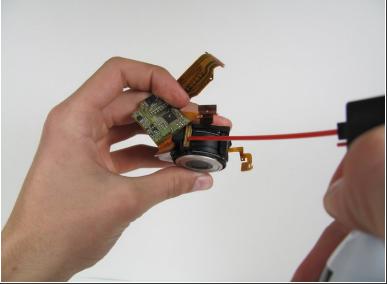


Lift off the shiny zoom lens ring.



 Lift out the ring under the shiny ring, using a tweezers.





- Blow out any obstructing particles using compressed air in the slot created by the removal of the previous rings.
- Blow compressed air into the opening where you can see the gear track.

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