MacBook Pro 15" Retina Display Late 2013
Logic Board Assembly Replacement

Logic board assembly prereq for late 2013. Same as early 2013 except for headphone jack.

Written By: Andrew Optimus Goldheart
TOOLS:
- T5 Torx Screwdriver (1)
- Spudger (1)
Step 1 — Logic Board Assembly

- Use the flat end of a spudger to pry the left speaker connector up and out of its socket on the logic board.

- Use the tip of a spudger to pry the right speaker connector up and out of its socket on the logic board.

⚠ Be sure to pry on the cable head, and not on the socket itself. Prying on the socket may cause it to separate from the logic board.
Step 2

- Peel back the tape covering the top of the keyboard ribbon cable connector.
- Use the flat end of a spudger to flip up the retaining flap on the keyboard ribbon cable ZIF socket.
  
  ⚠ Be sure you are prying up on the hinged retaining flap, not the socket itself.
- Use the flat end of a spudger to push the keyboard ribbon cable out of its socket.

Step 3

- Use the flat end of a spudger to pry the trackpad ribbon cable connector up out of its socket.
Step 4

- Use the flat end of a spudger to pry the keyboard backlight connector up from its socket on the logic board.

Step 5

- Use the tip of a spudger or your fingernail to flip up the retaining flap on the microphone ribbon cable ZIF socket.

Be sure you are prying up on the hinged retaining flap, **not** the socket itself.

- Pull the microphone ribbon cable out of its socket.
Step 6

- Use the tip of a spudger to flip up the display data cable lock and rotate it toward the DC-In side of the computer.

- Pull the display data cable straight out of its socket on the logic board.

⚠ Do not lift up on the display data cable, as its socket is very fragile. Pull the cable parallel to the face of the logic board.
Step 7

- Use the flat end of a spudger to carefully pry off the rubber screw cap on the raised screw head near the MagSafe 2 connector.

  ❔ The location of this screw may vary between models.

Step 8

- Remove the following six screws securing the logic board to the upper case:
  - One 3.1 mm T5 Torx screw
  - One 2.5 mm T5 Torx screw
  - One 5.5 mm silver, raised-head T5 Torx screw
  - Two 5.7 mm T5 Torx screws
  - One 3.8 mm silver T5 Torx screw
Step 9

- Lifting from the side nearest the battery, rotate the logic board toward the top of the MacBook Pro.

  You may need to slide the logic board a few millimeters to the left in order to get clearance for the ports along the right edge of the board.

- Using the flat end of a spudger, carefully push the MagSafe 2 connector out of its socket on the bottom of the logic board.

  Disconnecting the MagSafe 2 connector can be difficult. If you are only removing the logic board to temporarily get it out of the way, such as for a battery replacement, you may find it easier to simply remove the two 2.5 mm T5 Torx screws securing the MagSafe DC-In board, and then remove the logic board and MagSafe board together.
Step 10

- Remove the logic board assembly from the MacBook Pro.

- When reinstalling the motherboard, make sure all cables are visible and not trapped under the motherboard.

  - Clockwise from top: battery, right speaker, keyboard backlight, AirPort/camera, display, microphone, left speaker, keyboard, and trackpad.

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