ADJUSTMENT

CONTENTS

1. Head Voltage Adjustment

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Perform this adjustment when the MAIN PCB ASS'Y or the PRINT UNIT is replaced.

1.1 Required Equipment

① SELPHY CP710/CP510 that is confirmed to operate normally. (Prepare a SELPHY CP710/CP510 in addition to the SELPHY CP710/510 that is brought in for repair.)
② SD Card in which the standard image (gry_0100.JPG in case of the file stored in Service Manual) is copied, which is supplied with this Service Manual.
  Copy it to the folder "***CANON" in the SD Card. (Select the DCF format.)

③ Digital camera which has Direct Print function.
④ Interface cable supplied with the digital camera.
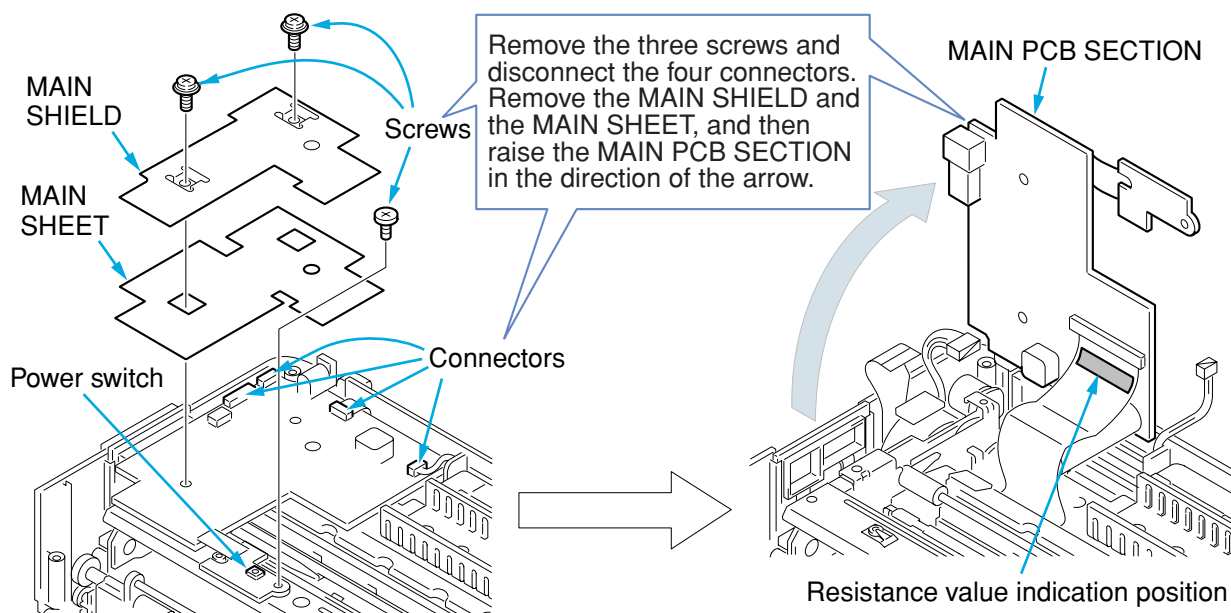⑤ Digital voltmeter

1.2 Preparation Before Adjustment

Print the standard image (②) using the SELPHY CP710/CP510 (①) that is confirmed to operate normally, via the digital camera (③).
Note: Use only the copy that was printed first.
      If it fails to print, wait for five minutes and print the standard image again.

1.3 Adjustment Procedure

(1) Read the resistance value (Ω) at the specified position in the illustration below.

MAIN SHIELD

MAIN SHEET

Screws

Remove the three screws and disconnect the four connectors. Remove the MAIN SHIELD and the MAIN SHEET, and then raise the MAIN PCB SECTION in the direction of the arrow.

MAIN PCB SECTION

Power switch

Connectors

Resistance value indication position

1

(2) Calculate the Voltage value as below.
    Common value for SELPHY CP710/CP510
    Calculation equation: Voltage value = $\sqrt{}$ (Resistance value x 0.081)
    For example, when the measured resistance value is 2919 Ω,
    Voltage value = $\sqrt{}$ (2919 Ω x 0.081) ≒ 15.377 V

(3) Attach the screws and the connector removed in step (1), and then remove the TOP COVER SECTION. Connect the SELPHY CP710/CP510 and the digital camera with the interface cable to make direct printing possible.

(4) While Printing an arbitrary image from the digital camera, measure the voltage of the test points ($\oplus$, $\ominus$) during printing, and adjust the volume (VR) so that the voltage value is within ±0.03 V of the voltage value calculated in step (2).
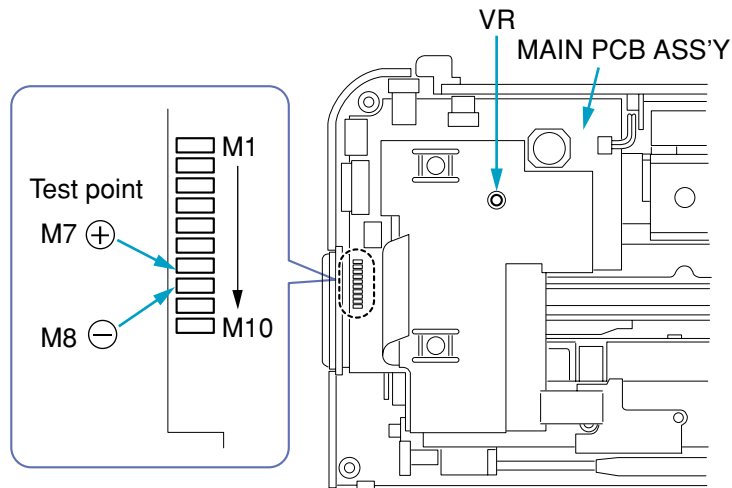
(5) After the voltage is adjusted, wait for five minutes.

(6) Print the standard image (②).
    Note: Use only the copy that was printed first.
           If it fails to print, wait for five minutes and print the standard image again.

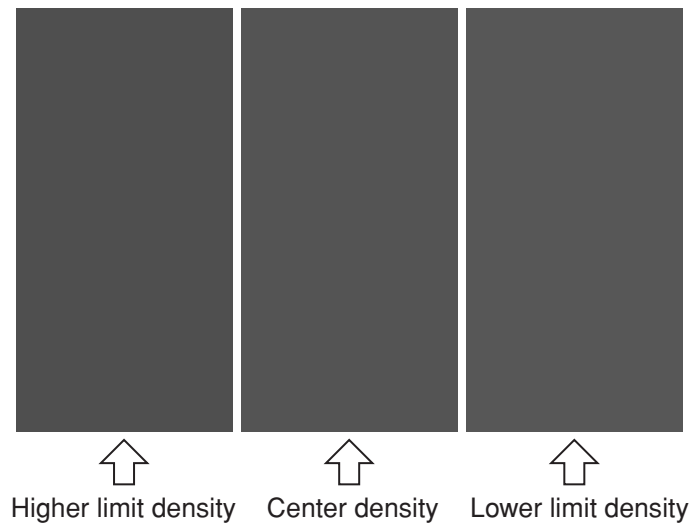(7) Confirm that the center density of the printed image is between the lower limit density and the higher limit density as shown. If the center density is between them, this is the end of the adjustment. If it is not, go to step (8) and the following steps.

Higher limit density   Center density   Lower limit density

2

(8)   While printing an arbitrary image, measure the voltage of the test point while printing is in progress. When the printed image is denser than the higher limit density, adjust the control volume so that the test point voltage is decreased by 0.3V lower than the specified voltage. When the printed image is less dense than the lower limit density, adjust the control volume so that the test point voltage is increased by 0.3V higher than the specified voltage.

(9)   Repeat steps (5) to (7). If the printed image still does not satisfy the specification, increase or decrease the voltage by assumption and repeat steps (5) to (7) again.