

## Smart Cartridge Manual and Precautions

Suitable for following Canon cartridges:

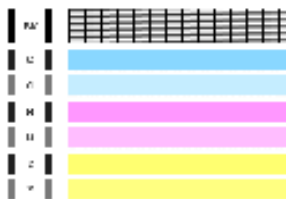
Canon 810/811/210/211/310/311/510/511/512/513/815/816

48/58/145/146/245/246/345/346/445/446/545/546/645/646/745/746/845/846

CANON 87/88/97/98/140/141/240/241/340/341/440/441/540/541/640/641/740/741/840/841

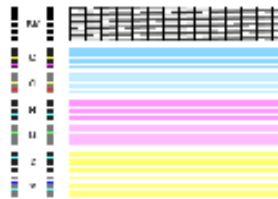
**I. Please ensure the nozzle test sheet is normal before installation (Original cartridge have not been pried, not refilled. The appearance is in good situation).**

1. Normal (1-1)

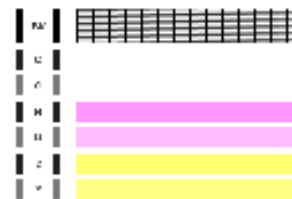


1-1 Normal

2. Abnormal (1-2, 1-3) Please refer to solutions



1-2 Line missing



1-3 Color Missing

**II. Use screwdriver to pry off cartridge cap from original cartridge welding point (2-1). Trim the cartridge edge's burr (2-2). Please take care of print head nozzle and chip contact to avoid damage (2-3).**



2-1 Pry off cartridge cap



2-2 Trimming



2-3 Protect nozzle and chip contact

**III. Take out sponge from original cartridge (3-1) and clean inside groove (3-2).**



3-1 Take out sponge



3-2 Clean inside groove

**IV. Take out smart cartridge and insert them into original cartridge according to colors and press downside tightly.**

Tear off seal from smart cartridge. Please do head cleaning after installing in printer. Check whether nozzle test sheet is normal or not. If slight line missing, please do head cleaning again.



4-1 Before installation



4-2 Tear off seal



4-3 Head cleaning



4-4 Nozzle testing

**V. During printing, if printer remind that ink is used up(5-1). Please press Restore Button for more than 5 seconds to do reset. Then the ink volume indicator change to be grey, it can go on printing.**



5-1 Ink is used up



5-2 Restore button



5-3 Restore button

## Potential problems and resolutions:

### I. Nozzle test sheet is line missing or color missing.

1. Please check whether the cartridge appearance is in a good situation or not, the cartridge head is damaged or not. Please don't use problem original empty cartridge.
2. Place original cartridge long time no use: Because of climate and temperature, humidity and other factors difference. If place ink cartridge 10 days or more, it means long time no use. The cartridge nozzle will dry if long time no use and nozzle testing will be line missing, color missing or couldn't print out completely. Resolution: Soak cartridge nozzle into hot water(around 70°C) about 2cm, let it silence about half an hour. Then use tissue paper to wipe off water from print head and chip contact carefully. Press nozzle bottom on tissue paper slightly to check whether the traces of water is well distributed or not, then you can judge the print head situations. Note: please take care of nozzle and chip contact to avoid any damage.
  - a). If traces of water is not well distributed, please prolong soaking time and then judge the situations again.
  - b). If traces of water is well distributed, please install smart cartridge and do head cleaning to check final result.
  - c). If the situation is bad after all procedures, the printer head may be damaged and please change to new original cartridge.
3. Original cartridge is just used up or storage time is within 10 days: You can install smart cartridge and execute the head cleaning to check whether the nozzle is normal or not. If just line missing slightly, you can do head cleaning again or set aside several hours then test again.

### II. Print head inspection is normal, however, after installing smart cartridge, the printing is line missing or blank:

1. After installation, the test is line missing: Please do head cleaning again if line missing slightly.
2. After installation, the test is print blank:

- a).Please check whether the smart cartridges are installed in the right position or not.
- b).Please check whether the cartridge yellow seal is tore off or not.
3. After printing a period of time or a certain pages, please check whether the ink inside smart cartridges is used up or not. If yes, please change to one new set of smart cartridges.

### **III. After installation, the printer couldn't detect the cartridge.**

- 1.Take out cartridge and check whether the smart cartridge is pressed down to right position or not.
- 2.Check whether the head chip contact is damaged or not.

**IV.A little ink may be leaking out while installation:** In order to let consumers have the largest printing pages, our prefilled ink is up to saturation point, therefore, there may be a little ink leaking out while installation, it will not affect normal printing, please use tissue to wipe off leaking ink to avoid staining others.

**V. There is no ink pumping system for some Canon printers:** It is unable to draw ink itself if no ink pumping system inside printers and ink couldn't reach to cartridge nozzle, so will cause line missing or color missing. Please use our draw tools to draw ink out and use tissue to wipe off stain. Note: The draw tools is suitable for 210/211/510/511/512/513/745/746/810/811 series. The draw tools is fit with black silicon and color silicon.



V-1 Draw tools and injector



V-2 Cartridge install into draw tools



V-3 Draw ink

### **Cautions:**

- 1.Avoid direct sunshine.
- 2.Because of saturated ink, after unpack the smart cartridges, please use them immediately to avoid color mixing for color cartridge.
- 3.Please be more careful while installation to avoid staining of hands or other articles.
- 4.Please well protect the cartridge head and nozzle during processing.
- 5.After installation, the nozzle will dry if long time no use. Please print at least one test page per week.
- 6.If line missing or color missing happen after some printing, please check ink volume and change smart cartridge in time.

## Important hints( For without ink pumping system printers)

### VI.Some Canon printers without ink pumping system:

(Cartridge no. is 47/57,145/146,245/246,545/546,645/646,745/746 ect.)

Because of without ink pumping system for these printers, the ink is unable to flow to cartridge nozzle when do cleaning. It may let print head life shorted or damaged if go on working. Therefore, if you initial install 47/57,145/146,245/246,545/546,645/646,745/746 smart cartridge each time, please draw out about 1ml ink. This procedure will prolong the print head life and print more pages. Following is example of BK cartridges:



5-1  
Prepare draw tools



5-2  
Install smart cartridge



5-3  
Draw ink



5-4  
Up to 2ml meter

### VII. please change 47/57,145/146,245/246,545/546,645/646,745/746 smart cartridge if occur following situations.

The cartridge structure of 47/57,145/146,245/246,545/546,645/646,745/746 make smart cartridge occur following situations if nearly print empty.

1.The document tail is line missing (6-2),it is the same when print a new page.

2.The document tail is missing (6-3) ,it is the same when print a new page.

If occur the above situations, please change the smart cartridge. After changing, please use draw tools to draw ink out around 1ml from cartridge nozzle. Please process this step every time when change to new smart cartridge.



6-1 Normal document



6-2 Document tail is line missing



6-3 Document tail is missing