

1. How do I determine how many pages I have printed?

A) Entering service mode:

- make sure the printer is turned off.
- press *and hold* the [resume] button, and then press *and hold* the [power] button. (Now you are holding both buttons down)
- release the [resume] button (but do not take the finger off the power button)
- press 2x [resume]
- release the [power] button

B) Functions available in service mode:

Once you have entered the service mode, you can select one of the functions mentioned below by pressing the resume button the specified number of times and confirm that selection by pressing the power button. (btw: to give you some optical feedback, the indicator LED toggles between orange and green each time the resume button is pressed.)

- 1x [resume], then [power]: extended nozzle check
- 2x [resume], then [power]: EEPROM information print
- and many more, which could mess up your printer if you don't know what you're doing.

C) You can leave service mode by pressing [power] without pressing resume before.

If you have got your EEPROM print, look for

"TPAGE" = total pages

"PAGE" = ASF feed pages (all=all, PP=plain paper, HR=high resolution paper and so on)

"UCPAGE" = U-turn cassette feed pages

"L" = 10x15cm pages (4x6")

"CDR" = CDs

other interesting stuff:

"D" = waste ink counter

"P_ON" = power on count

"PC" = purging count (manual/deep cleaning/timer/ dot count/ink tank replacement)

"CH" = Head changes

"CT" = tank changes (ink tank replacement count)

Canon Printer Service Mode

What needs to be done here is that the "destination" setting—which tells the printer where it is—needs to be changed from the U.S./Canada default setting to a setting that supports print-to-CD on a letter-size (8.5-inch x 11-inch) default setting.

For this section, it's important to know that you get access to the Canon printer firmware through two buttons on the front panel. These get you into printer service mode.

(By the way, I got this information below from the Canon service manual for this printer. Unfortunately, the URL from which I previously downloaded my copy no longer seems to exist. One might be available as of whenever you read this. Searching for one might be a good idea.)

The Canon printer service mode is an internal diagnostic/maintenance menu tree. You access it using the Power and Resume/Cancel buttons instead of a computer keyboard or mouse. To do so, start with the following five steps:

1. Turn off the printer (but leave it plugged in to its power supply).
2. Press/hold the Resume/Cancel button. Then press/hold the Power button.
3. When you see a green power light go on, release the Resume/Cancel button. But continue to hold Power.
4. While still holding Power, press Resume/Cancel twice. Then release both buttons.
5. The light will flash green for a few seconds and you'll hear odd whirring noises. When the Power light turns solid green, you are in service mode. The light below Resume/Cancel will go on, too.

Service Mode Functions

Once you're in Service Mode, you access each function by pressing the Resume/Cancel button the number of times called for in the list below. Each time you push the Resume/Cancel button, the power light will turn orange, then green, alternating as you continue to push. Then press the Power button to enter the sub-menu function. The Power button in this context works like a single mouse-click does on a menu in a GUI interface.

Once the function is entered, you will return to the original menu level, except for the Destination settings. There you have to pick a submenu function (one of which is "return to main menu") before you are returned to the main menu. You'll want the Destination Settings corresponding to **letter paper-CDR printing** below.

Here are the functions, and the number of times you'll need to press which buttons:

- o **Service test print:** Press the Resume/Cancel button one time. Then press Power.
- o **EEPROM information print:** Press the Resume/Cancel button two times. Then press Power.
- o **Initialize EEPROM:** Press the Resume/Cancel button three times. Then press Power.
- o **Reset waste ink counter:** Press the Resume/Cancel button four times. Then press Power.
- o **Destination settings:** Press the Resume/Cancel button five times. Then press Power. Once selected, go to the next step below:

Note: if your printer is, for instance, an IP4000, the Japan setting will be IP4100, and the rest will be IP4000. Other model printers will show similar model numbers variations based on DESTINATION SUBMENU settings.

DESTINATION SUBMENU:

- o **(Power LED Orange) - Japan IP3100:** Press the Resume/Cancel button one time. This changes the setting and returns you to the main menu.
 - o **(Power LED Green) – U.S./Canada A4 paper IP3000, no CDR printing:** Press Resume/Cancel two times, then press Power. This changes the setting and returns you to the main menu.
 - o **(Power LED Orange) – U.S./Canada default letter paper IP3000, no CDR printing:** Press Resume/Cancel three times then press Power. This changes the setting and returns you to the main menu.
 - o **(Power LED Green) - international A4 paper IP3000 CDR printing:** Press Resume/Cancel four times, then press Power. This changes the setting and returns you to the main menu.
 - o **(Power LED Orange) - international letter paper IP3000 CDR printing:** Press Resume/Cancel five times, then press Power. This changes the setting and returns you to the main menu.
 - o **Exit Destination Setting with no changes made, return to main menu:** Press six or more times. If the service test or EEPROM information prints work as described in the Main Menu above, you have successfully returned to the Main Menu.
 - o **Print head deep cleaning:** Press the Power button six times.
 - o **CDR test print (not used in servicing):** Press the Power button seven times.
 - o **CDR horizontal print position correction:** Press the Power button eight times. You'll probably do this in label printer software.
 - o **CDR vertical print position correction:** Press the Power button nine times. You'll probably also do this in label printer software.
 - o **Return to main menu selection:** Press the Resume/Cancel button 10 or more times, then press Power.
 - o **To exit service mode and return to normal printing:** Turn the printer off by pressing Power again and hold it for a few seconds. Then, turn it on after the power light stops flashing green. Once the light stops flashing and is solid green, you can print normally. It will probably feed a blank page through the printer as it goes on.
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EEPROM information print

<How to read EEPROM information print>

Print sample:

iP4200 JPN V1.04 IF(USB2=1) D=004.5 ST=2005/05/27-18:30

ER(ER0=1000 ER1=5100) LPT=2005/06/09-09:09

PC(M=002 R=000 T=001 D=009 C=009)

CLT(BK=2004/09/27-18:30 CL=2001/09/27-18:30)

CH=00002 CT(PBK=040 BK=020 Y=109 M=012 C=113) IS(PBK=1 BK=0 Y=1 M=1 C=1)

P_ON(S=00009) A_REG=1 M_REG=0

UR(A(BKoe)=000 B(Coe)=000 C(Moe)=000 D(SCoe)=000 E(SMoe)=000 F(PBKoe)=000

G(CLbi)=000 H(SCLbi)=000 I(C-SC)=000 J(M-SM)=000 K(BK-CL)=000

L(BKbiPP)=000 M(CLbiPP)=000 N(SCLbiPP)=000 O(NZctr)=000 P(NZedge)=000

WP=0024 CDIN(LG=001 PB=000) MSD(015)

PAGE(All=00083 PP=00035 HR+MP=00003 PR+SP+SG =00000 GP =00000 PC=00000 EV=00000)

UCPAGE(All=00083 PP=00035 HR+MP=00003 PR+SP+SG =00000 GP =00000 PC=00000 EV=00000)

BPPAGE(All=00083 BSSP=00003 PC=00000)

CDPAGE(All=000) EDGE=00083 L=00000 CDR=00000

CDRP=(-00005,-00029) CDRS=(000) LM=(ASF_R:00 UT_F:00 UT_R:00)

Head TempBK=18.5 Head TempC=17.5 Env Temp=30.0 FF(3F 3F 3F)

HDEEPROM

V0001 SN=0318-A43D

LN(00000 00000 00001 00003 00001 00000 00000) ID=00

IL=(PBK=000 BK=000 Y=001 M=001 M2=001 C=000 C2=001)

Printed items:

1. Model name 2. ROM version 3. Connected I/F (USB2) 4. Waste ink amount 5. Installation date
6. Operator call/service call error record 7. Last printing time
8. Purging count (manual/deep cleaning/timer/dot count/ink tank replacement)
9. Cleaning time (BK/CL)
10. Print head replacement count 11. Ink tank replacement count (PBK/BK/Y/M/C) 12. Ink status (PBK/BK/Y/M/C)
13. Power-on count (soft) 14. Automatic print head alignment by user 15. Manual print head alignment by user
16. User print head alignment values
(BKoe/Coe/Moe/SCoe/SMoe/PBKoe/CLbi/SCLbi/C-SC/M-SM/BKCL/
BKbiPP/CLbiPP/SCLbiPP/NZctr/NZedge)
17. Wiping count 18. Camera Direct Print-supported device connection record 19. Longest period where printing stops
20. ASF feed pages (total, plain paper, High Resolution Paper & Matte Photo Paper, Photo Paper Pro & Photo Paper Plus Glossy & Photo Paper Plus Semi-gloss, Glossy Photo Paper, Postcard, Envelope)

21. U-turn cassette feed pages (total, plain paper, High Resolution Paper & Matte Photo Paper, Photo Paper Pro & Photo Paper Plus Glossy & Photo Paper Plus Semi-gloss, Glossy Photo Paper, postcard, envelope)

22. Auto duplex print pages (total, Photo Paper Plus Double Sided, postcard)

23. Camera Direct print pages (total) 24. Borderless print pages 25. L & 4x6 print pages 26. Number of CDs and DVDs printed

27. CD / DVD print position adjustment 28. CD / DVD sensor correction value 29. Left margin correction value

(ASF back side, U-turn front side, U-turn back side)

30. Print head temperature (BK/CL) 31. Inside temperature 32. Line inspection information

HDEEPROM

33. Version 34. Serial number

35. Lot number 36. Print head ID

37. Ink ejection level (PBK, BK, Y, M, M2, C, C2)