SUMMIT Technologies

Cartridge/Machine Reset Guide Version 16

Now with HP & Lexmark common chip error codes!

By Mike Josiah

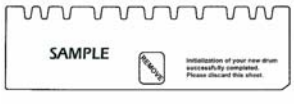
Welcome to the 16th version of our Reset Guide! This guide continues to expand (sometimes on a daily basis), and it will continue to expand for the for-seeable future. Although most machines these days are chip based, some still use the machine menu to reset the counter. As for the chip based machines, it basically comes down to if the chip stops that cartridge from printing or allows the cartridge to print but disables the toner low circuitry. We have tried to include this information where ever possible. New in this version, we have also included common chip error codes and their explanations. Sometimes what is perceived to be a chip error can be something else. Codes for HP and Lexmark machines have been included. Rather than copy them for every HP and Lexmark engine, we have included a generic listing at the beginning of both the HP and Lexmark section. Only if there is a specific machine error code will there be anything under the actual engine.

If you have information not listed here, please contact Mike Josiah at mjosiah@summitechnologies.com so it can be included in the next version.

Brother HL-630 OPC

Brother Cartridge
Part #DR-100
OEM Stated Yield: 11-15,000

This cartridge does not use any type of reset procedure. These cartridges according to the Brother manual should be replaced whenever the copy quality deteriorates. Since this could occur almost at any time, there is no need to have a counter. We only included it here because all of the other Brother engines DO have some sort of reset procedure.



Brother HL-720 OPC

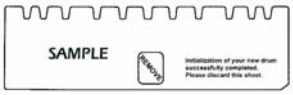
Brother Cartridge
Part #DR-200
OEM Stated Yield: 20,000

New drum cartridges come with a clear "Starter Sheet" installed inside the cartridge. When the cartridge is installed and the cover closed, the printer will eject the sheet and at the same time, reset the drum counter. This sheet is also present in the DR-300 cartridges. Replacement sheets are now available.

Brother Intellifax 2800/2900/3800 OPC

Brother Cartridge
Part #DR-250
OEM Stated Yield: 20,000
(Also used in the DCP-1000/MFC-4800 and MFC-6800)

New drum cartridges come with a clear "Starter Sheet" installed inside the cartridge. Install the cartridge but keep the cover open. Press the "CLEAR" button to show the drum status. The display will show REPLACE DRUM? 1. YES 2. NO Press "1" on the telephone keypad. The counter is reset! Replacement sheets are now available.

Brother HL-1040 OPC

Brother Cartridge
Part #DR-300
OEM Stated Yield: 20,000

New drum cartridges come with a clear "Starter Sheet" installed inside the cartridge. When the cartridge is installed and the cover closed, the printer will eject the sheet and at the same time, reset the drum counter. This sheet is also present in the DR-200 cartridges. Replacement sheets are now available.

Brother HL-1240 OPC

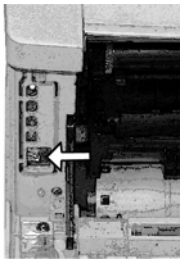
Brother Cartridge
Part #DR-400 (DR-6000)
OEM Stated Yield: 20,000

Fax Machines (DCP Machines also)

After replacing the drum unit, keep the front cover open and press "Clear". The display will show "Replace Drum? 1.Yes 2.No" Press "1" the display will show "Accepted", close the front cover. The counter is reset!

MFC9700 Only: After replacing the drum unit, keep the front cover open and press "Right Arrow" key. The display will show "Replace Drum? 1.Yes 2.No" Press "1". Close the front cover. The counter is reset!

Laser Printers



Open the front cover. Locate the black button under the LED lights on the left side. Press and hold in the button until all the lights are lit. Release the button. The counter is reset!


Brother HL-1650 OPC

Brother Cartridge
Part #DR-500 (DR-7000)
OEM Stated Yield: 20,000

After replacing the drum unit, keep the front cover open (make sure the power is on). Press and hold the "GO" button for four seconds, the display will then show "DRUM CLEAR". Close the front cover. The counter is reset!

Brother HL-2040 OPC

Brother Cartridge
Part #DR-350 (DR-3000)
OEM Stated Yield: 12,000

Laser Printers: make sure the machine is turned on and the Drum LED is blinking. Press and hold the GO button for 4 seconds until all the LEDs light up. Once all the LEDs are lit, release the GO button. The counter is Reset!

Fax machines: After replacing the drum unit, keep the front cover open (make sure the power is on). Press OPTIONS on the display panel. When REPLACE DRUM? Appears on the display, press "1", when ACCEPTED appears, close the front cover. The counter is reset!

Brother HL-3260N OPC

Brother Cartridge
Part #DR-1200
OEM Stated Yield: 60,000

The HL-3260 is Brothers first high speed printer. The drum cartridge comes with three RED sheets and two pieces of tape installed on the cartridge. There is a possibility that there is developer inside the drum cartridge. Removal of these is what seems to reset the counter, or there may not be a counter that has to be reset. These cartridges are still being investigated.

Brother HL-5150 OPC

Brother Cartridge
Part #DR-510 (DR-3000)
OEM Stated Yield: 20,000

Laser Printers: After replacing the drum unit, keep the front cover open (make sure the power is on). Press and hold the "GO" button until all four LED's are lit. Once the four LED's light up, close the front cover. Make sure the drum LED is off. The counter is reset!

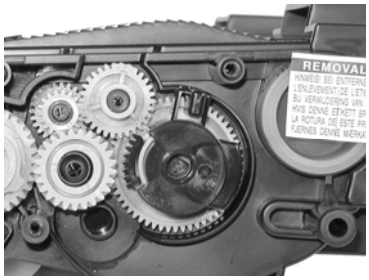
Fax Machines: Open the front cover. Press the CLEAR/BACK button. Press 1, when the display shows Accepted, close the front cover. The counter is reset!

Brother HL-5200 OPC

Brother Cartridge
Part #DR-520 (DR-3100)
OEM Stated Yield: 25,000

Laser Printers: make sure the machine is turned on and the Drum LED is blinking. Open the front cover. Press and hold the GO button for 4 seconds until all the LEDs light up. Once all the LEDs are lit, release the GO button. Close the front cover. The counter is Reset!

Fax Machines: Open the front cover. Press the CLEAR/BACK button. Press 1, when the display shows Accepted, close the front cover. The counter is reset!



Brother HL-6050 Toner

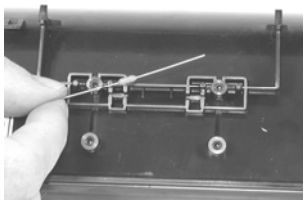
Brother Cartridge
Part #TN-670 (TN-4100)
OEM Stated Yield: 7,500

These cartridges have a gear-driven reset lever that must be reset. To Reset the cartridge, set the black reset gear as shown in the picture

Brother HL-6050 OPC

Brother Cartridge
Part #DR-600 (DR-4000)
OEM Stated Yield: 20,000

After replacing the drum unit, keep the front cover open (make sure the power is on). Press and hold the "GO" button for four seconds, the display will then show "DRUM CLEAR". Close the front cover. The counter is reset!



Brother HL-7050 Toner

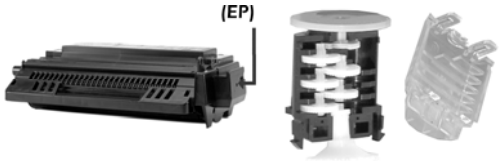
Brother Cartridge
Part #TN-700 (TN-5500)
OEM Stated Yield: 12,000

Located inside the cartridge handle is a small fuse that looks similar to a resistor. It is a 1/8A, 250V fast acting fuse, and must be replaced each cycle.

Brother HL-7050 OPC

Brother Cartridge
Part #DR-700 (DR-5500)
OEM Stated Yield: 40,000

The HL-7050 is a variation on the 460/560 cartridges. After replacing the drum unit, keep the top cover open (make sure the power is on). Press and hold the "GO" button for four seconds, the display will then show "DRUM CLEAR". Close the top cover. The counter is reset

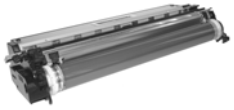


Canon LBP-CX

HP Cartridge
Part # (92285A)
OEM Stated Yield: 2,500

These cartridges have a color wheel that indicates the approximate amount of toner left in the cartridge. This wheel does not actually stop the machine it only gives the user a visual indication. The wheel Assy. consists of a small gear train that drives a geared color wheel. The gear assembly is calibrated for 5% pages, so it is very possible that you have an empty cartridge with a green wheel showing, or a half full cartridge with a red wheel showing. It all depends on how much toner is used per page.

To reset the counter, remove the clear cover from the counter by releasing the 4 tabs. Carefully remove the small gear next to the color wheel and turn the wheel so that the notched area is up. Insert the small gear so that the teeth of both the small gear and the wheel just start to engage. Carefully snap the cover back on. If you slip and the small gears jump out of place, just alternate them from the middle to one side. The opposite side is empty. It doesn't matter which side you choose.



Canon NP-1010/1020/C-100 OPC

Canon Cartridge Part # F43-2101-700
OEM Stated Yield: 15-20,000

The copier will show "Replace Drum" when the waste chamber fills up with toner. The cartridge must be taken apart, cleaned thoroughly, drum and wiper blade replaced (uses A-30 parts). Make sure that the waste chamber is cleaned thoroughly as the machine will not reset if there is toner left inside.

Canon NP-6012/C-120/6412 OPC

Canon Cartridge
Part # F43-5411-700 (NPG-11)
OEM Stated Yield: 30,000

To reset the counter in the NP-6012/6412/C-120 OPC cartridges the connector on the rear of the cartridge must be replaced. New replacement chips are available with the housing. Unscrew the old connector and replace with the new. These drums are rated for 30,000 pages.

Canon NP-6016/C-160 OPC

Canon Cartridge
Part # F43-4921-700 (NPG-9)
OEM Stated Yield: 40,000

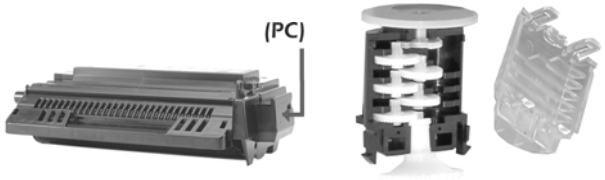
The drum unit for these cartridges is rated for 40,000 pages. The machine will show “Replace Drum” at 40,000 pages or when the waste toner section is full. These cartridges have a reset chip built into the connector. This connector must be reset before a rebuilt cartridge will work. Currently no new replacements are available, but there are some companies that will reset the OEM chip for you.

Canon NP-6521/C-200 OPC

Canon Cartridge
Part # F43-4921-700 (NPG-9)
OEM Stated Yield: 50,000

These machine use the same cartridge as the NP-6016, but the yield is 50,000 not 40,000. Since the same chip is used, the decision must be made by the machine not the cartridge.

The drum unit for these cartridges is rated for 50,000 pages. The machine will show “Replace Drum” at 50,000 pages or when the waste toner section is full. These cartridges have a reset chip built into the connector. This connector must be reset before a rebuilt cartridge will work. Currently no new replacements are available, but there are some companies that will reset the OEM chip for you.



Canon PC-2000

Canon Cartridge
Part # A-20)
OEM Stated Yield: 2,000

These cartridges have a color wheel that indicates the approximate amount of toner left in the cartridge. This wheel does not actually stop the machine; it only gives the user a visual indication. The wheel assy. consists of a small gear train that drives a geared color wheel. The gear assembly is calibrated for 5% pages, so it is very possible that you have an empty cartridge with a green wheel showing, or a half full cartridge with a red wheel showing. It all depends on how much toner is used per page.

To reset the counter, remove the clear cover from the counter by releasing the 4 tabs. Carefully remove the small gear next to the color wheel and turn the wheel so that the notched area is up. Insert the small gear so that the teeth of both the small gear and the wheel just start to engage. Carefully snap the cover back on. If you slip and the small gears jump out of place, just alternate them from the middle to one side. The opposite side is empty. It doesn’t matter which side you choose.

Canon PC-Mini

Canon Cartridge
Part # (A-30)
OEM Stated Yield: 3,000

These cartridges have a color wheel that indicates the approximate amount of toner left in the cartridge. This wheel does not actually stop the machine it only gives the user a visual indication. The wheel Assy. consists of a small gear train that drives a geared color wheel. The gear assembly is calibrated

for 5% pages, so it is very possible that you have an empty cartridge with a green wheel showing, or a half full cartridge with a red wheel showing. It all depends on how much toner is used per page.

To reset the counter, grasp the color wheel in your right hand, the gear assembly in your left. While bending the wheel down, turn the wheel away from you until it stops. You will hear a slight grinding. That is fine as long as the wheel turns fairly easily. If the wheel is hard to turn, you are not bending the wheel down far enough and may damage the gears. This can also be done by removing the cover, removing the gear next to the wheel, and resetting the wheel gear

Canon PC-850

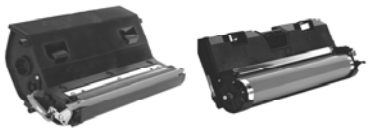
Canon Cartridge
Part # F100 (F41-9921)
OEM Stated Yield: 10,000

If the "Replace Cartridge" light is still lit in the display after replacing the cartridge, the customer can follow the steps below to reset the copier. This procedure should be done every time the cartridge is replaced:

Hold down the "A" (Automatic Exposure) key for approximately four (4) seconds or longer.
After approximately four (4) seconds have elapsed, "UC" appears in the Copy quantity/Copy ratio display. Press the "Start" key. "UC" will flash for about 20 seconds in the Copy quantity/Copy ratio display. The copier will automatically perform a toner distribution operation, and then you will return to the normal copying mode.

NOTE: - Be sure to press the "A" key after replacing each cartridge. If you do not, your first few copies will not be clear copy images or the Replace Cartridge indicator may light. If either of these two problems occurs, press the main unit power switch to OFF and then to ON again. Afterwards, perform the above steps.

If copies are too dark or too light after you have replaced the cartridge, open the front door and adjust the copy exposure using the exposure re-calibration slide control switch.



DEX 625 (Samsung SF-5500)

Dex Cartridge
Part # 6950
OEM Stated Yield: 12,000

This cartridge is actually two separate cartridges, a toner and a drum cartridge. They are sold as one unit under part # 6950.
NOTE: It is very easy to ruin the sensor on these cartridges when cleaning. They are very static sensitive. We highly recommend that the sensor be removed before cleaning and replaced before the cartridge is filled. (There is a hole in the chamber that will leak if not replaced.
There are two reset procedures that must be followed in order to have this cartridge operate properly. On the drum unit there is a glass fuse that must be replaced. The fuse is a 125V,100mA, 5x20mm fast acting glass type. Once the cartridge(s) have been installed, you must perform the toner initialization. Press FUNCTION, 7, YES, NO, YES, YES. The machine is reset!

Fuji-Xerox XP-11 Toner & OPC (Xerox 4030)

Xerox Part #'s 6R281/13R32
OEM Stated Yield: 20,000

With the printer off, press and hold the reset button located next to the power cord. While still holding the reset button in, turn the power on. The reset procedure is the same for both the toner and drum cartridges.

Goldstar GL-660
(Xerox W.C. Pro 610)

6R00833 Toner, 13R00532 OPC
Toner: 5,000 pages, OPC: 10,000 Pages

Toner

With the Machine on, open the access cover.
Press “MENU”, Press “6”, Press “3”
Press “CLEAR”, Press “ENTER”

OPC

With the Machine on, open the access cover.
Press “MENU”, Press “6”, Press “4”
Press “CLEAR”, Press “ENTER.

Common HP Chip/Machine Error Codes

“10.00.00” If this is displayed, it means the printer is having problems communicating with the chip on the cartridge. This could be for the following reasons:

- ✓No chip is installed
- ✓The printer did not make electrical connection with the chip
- ✓The wrong chip type is on the cartridge
- ✓The chip is defective and must be replaced

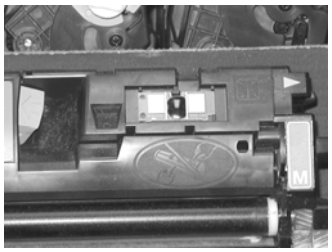
“10.10.00” If this is displayed, it means the printer is not happy with the information from the chip on the cartridge. This can be caused by:

- ✓ The printer lost electrical connection with the chip
- ✓ The chip is defective and must be replaced

HP Color LaserJet 1500/2500

HP Black # C9700A, Cyan C9701A, Magenta C9703A, Yellow C9702A
OEM Stated Toner Yield: 5000 Black, 4000 Color

These cartridges have what HP now calls “Smart Chips” Similar to other HP chips, these chips monitor toner usage, Internet supplies ordering, and a new feature, remote troubleshooting. Unlike the 4100, the chips need to be replaced every cycle. There are separate chips for each color. These cartridges are toner only, there is a separate drum unit part number C9704A that is rated for 20,000 pages black, or 5,000 pages color.. Toner and chips are available.



HP Color LaserJet 2550/2840

HP Black # Q3960A, Cyan Q3961A, Magenta Q3962A, Yellow Q3963A
OEM Stated Toner Yield: 5000 Black, 4000 Color

HP Cyan Q3971A, Magenta Q3972A, Yellow Q3973A
OEM Stated Toner Yield: 2000 Color

These cartridges have what HP now calls “Smart Chips” Similar to other HP chips, these chips monitor toner usage, Internet supplies ordering, and a new feature, remote troubleshooting. Unlike the 4100, the chips need to be replaced every cycle. There are separate chips for each color. These cartridges are toner only, there is a separate drum unit part number Q3964A that is rated for 20,000 pages black, or 5,000 pages color.. Toner and chips are available.

HP Color LaserJet 2600

HP Black # Q6000A, Cyan Q6001A, Magenta Q6003A, Yellow Q6002A
OEM Stated Toner Yield: 2500 Black, 2000 Color

These cartridges have what HP now calls “Smart Print Technology Chips”. These are the latest in HP chips, they are very small, and contain all new code. As with most HP chips, these chips monitor toner usage. The chip does not need to be replaced, but if it is not, “Unauthorized cartridge” will show on the display. New chips are now available. These cartridges are “all in one” where the drums included with the toner. New toner and chips are available.

HP Color LaserJet 3000

HP Black # Q7560A, Cyan Q7561A, Magenta Q7563A, Yellow Q7562A
OEM Stated Toner Yield: 6500 Black, 3500 Color

These cartridges have what HP now calls “Smart Print Technology Chips”. These are the latest in HP chips, they are very small, and contain all new code. As with most HP chips, these chips monitor toner usage. The chip does not need to be replaced, but if it is not, “Unauthorized cartridge” will show on the display. New chips are now available. These cartridges are “all in one” where the drums included with the toner. New toner and chips are available.

HP Color LaserJet 3500/3550

HP Black # Q2670A, Cyan Q2671A, Yellow Q2672A, Magenta Q2673A
OEM Stated Toner Yield: 6000 Black, 4000 Color

These cartridges have what HP now calls “Smart Chips” Similar to other HP chips, these chips monitor toner usage, Internet supplies ordering, and a new feature, remote troubleshooting. Unlike the 4100, the chips need to be replaced every cycle. There are separate chips for each color. These cartridges are “all in one” where the toner, drum, and waste are all contained in one cartridge. Toner and chips are in development.

HP Color LaserJet 3600

HP Black # Q6470A, Cyan Q6471A, Magenta Q6473A, Yellow Q6472A
OEM Stated Toner Yield: 6000 Black, 4000 Color

These cartridges have what HP now calls “Smart Print Technology Chips”. These are the latest in HP chips, they are very small, and contain all new code. As with most HP chips, these chips monitor toner usage. The chip does not need to be replaced, but if it is not, “Unauthorized cartridge” will show on the display. New chips are now available. These cartridges are “all in one” where the drums included with the toner. New toner and chips are available.

HP Color LaserJet 3700

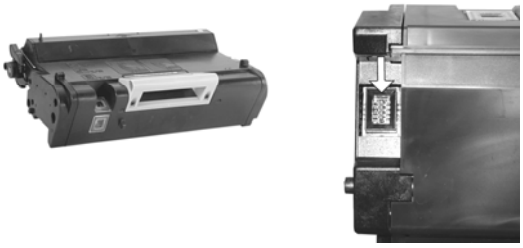
HP Black # Q2670A, Cyan Q2681A, Yellow Q2682A, Magenta Q2683A
OEM Stated Toner Yield: 6000 Black, 6000 Color

These cartridges have what HP now calls “Smart Chips” Similar to other HP chips, these chips monitor toner usage, Internet supplies ordering, and a new feature, remote troubleshooting. Unlike the 4100, the chips need to be replaced every cycle. There are separate chips for each color. These cartridges are “all in one” where the toner, drum, and waste are all contained in one cartridge. These machines share the same black cartridge as the CLJ 3500. The colors are not interchangeable. Toner and chips are in development.

HP Color LaserJet 3800

HP Black # Q6470A, Cyan Q7581A, Magenta Q7583A, Yellow Q7582A
OEM Stated Toner Yield: 6000 Black, 6000 Color

These cartridges have what HP now calls “Smart Print Technology Chips”. These are the latest in HP chips, they are very small, and contain all new code. As with most HP chips, these chips monitor toner usage. The chip does not need to be replaced, but if it is not, “Unauthorized cartridge” will show on the display. New chips are now available. These cartridges are “all in one” where the drums included with the toner. New toner and chips are available.



HP Color LaserJet 4500 (Canon LBP-83X)

HP-4500 General Note: If the transfer belt kit or Fuser is replaced before the change fuser/transfer messages are displayed, placing a new part in the machine may not reset the counter. Reset procedures for these parts are included here.

OPC Cartridge

HP OPC Part # C4195A
OEM Stated Yield: 25,000

These cartridges have an ARD installed on the left side of the cartridge. The chip is actually just an IC plugged into a socket on the back of the electrical connector, which can easily be changed. It would seem that HP or Canon has plans to recycle these cartridges. Even though they look the same, the programming on these chips is different from the HP-8500.

New reset chips are now available to reset these cartridges. Drums and chips should be sold as a set as the chip contains information about the drum sensitivity. These cartridges also have windows that work with an optical sensor inside the printer that determines if the waste chamber is full or not. It is more than likely that if the waste chamber fills up, the machine will shut down. We are not sure if the cartridge waste chamber is cleaned out, it will continue to run until the chip finishes its page count. The Canon version of this printer is the CLBP-460PS. The chip also contains information on the characteristics of the drum that is used during the calibration sequence.

HP Color LaserJet 4500 Transfer Belt

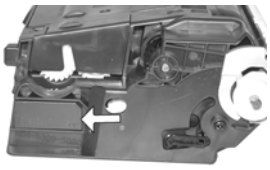
HP OPC Part # C4196A
OEM Stated Yield: 100,000 Black, 25,000 Color

Press the menu button until "RESET MENU" is displayed. Press the "ITEM" button until "NEW TRANSFER KIT, SELECT IF DONE" is displayed. Press the "SELECT" button. Press the "ITEM" button until the "INFORMATION" menu is displayed. The display should show "TRANSFER KIT = 100% LIFE REMAINING. The counter is reset!

HP Color LaserJet 4500 Fuser

HP OPC Part # C4197A
OEM Stated Yield: 100,000 Black, 50,000 Color

Press the menu button until "RESET MENU" is displayed. Press the "ITEM" button until "NEW FUSER KIT, SELECT IF DONE" is displayed. Press the "SELECT" button. Press the "ITEM" button until the "INFORMATION" menu is displayed. The display should show "FUSER = 100% LIFE REMAINING. The counter is reset



HP Color LaserJet 4600/4610/4650

HP Black # C9720A, Cyan C9721A, Magenta C9723A, Yellow C9722A
OEM Stated Yield: 9000

These cartridges have what HP now calls "Smart Chips" Similar to other HP chips, these chips monitor toner usage, Internet supplies ordering, and a new feature, remote troubleshooting. These cartridges are "all in one" type cartridges where each color is self contained (Toner, drum etc.). An interesting change is that if the chips are removed from the cartridge mid cycle, the machine will not accept the cartridge and will not print. Further testing is needed to see if once a cartridge actually runs out, if it can be refilled with the old chip. Toner and chips are available.

HP Color LaserJet 4700

HP Black # Q5950A, Cyan Q5951A, Magenta Q5953A, Yellow Q5952A
OEM Stated Toner Yield: 11,000 Black, 10,000 Color

These cartridges have what HP now calls "Smart Print Technology Chips". These are the latest in HP chips, they are very small, and contain all new code. As with most HP chips, these chips monitor toner usage. The chip does not need to be replaced, but if it is not, "Unauthorized cartridge" will show on the display. New chips are now available. These cartridges are "all in one" where the drums included with the toner. New toner and chips are available.

HP Color LaserJet 4730mfp

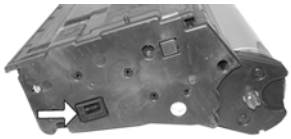
HP Black # Q6460A, Cyan Q6461A, Magenta Q6463A, Yellow Q6462A
OEM Stated Toner Yield: 12,000 Black, 12,000 Color

These cartridges have what HP now calls "Smart Print Technology Chips". These are the latest in HP chips, they are very small, and contain all new code. As with most HP chips, these chips monitor toner usage. The chip does not need to be replaced, but if it is not, "Unauthorized cartridge" will show on the display. New chips are now available. These cartridges are "all in one" where the drums included with the toner. New toner and chips are available.

HP Color LaserJet 5500/5550

HP Black # C9730A, Cyan C9731A, Magenta C9733A, Yellow C9732A
OEM Stated Yield: 13,000 Black, 12,000 Color

These cartridges have what HP now calls "Smart Chips. Similar to the HP-4100, these chips monitor toner usage, Internet supplies ordering, and a new feature, remote troubleshooting. These cartridges are "all in one" type cartridges where each color is self contained (Toner, drum etc). These machines also use a Transfer unit Part Number C9734A rated for 120,000 pages. New toner and chips are available.



HP Color LaserJet 8500/8550 OPC (Canon LBP-82X)

HP OPC Part # C4153A
OEM Stated Yield: 50,000

These cartridges have an ARD installed on the left side of the cartridge. The chip is actually just an IC plugged into a socket on the back of the electrical connector, which can easily be changed. It would seem that HP or Canon has plans to recycle these cartridges. Even though they look the same, the programming on these chips is different from the HP-4500.

New reset chips are now available to reset these cartridges. Drums and chips should be sold as a set as the chip contains info. about the drum sensitivity. These cartridges also have windows that work with an optical sensor inside the printer that determines if the waste chamber is full or not. It is more than likely that if the waste chamber fills up, the machine will shut down. We are not sure if the cartridge waste chamber is cleaned out, it will continue to run until the chip finishes its page count. The chip also contains information on the characteristics of the drum that is used during the calibration sequence.

HP Color LaserJet 9500

HP Black Toner C8550A, Cyan C8551A, Magenta C8552A, Yellow C8553A
OEM Stated Toner Yield: 25,000 Black, 25,000 Color

HP Black Drum C8560A, Cyan Drum C8561A, Yellow Drum C8562A
Magenta Drum C8563A,
OEM Stated Drum Yield: 40,000 Black/Color

This machine is based on a Konica engine. It uses separate toner and drum units. Chips must be replaced each cycle. Toner and chips are in development.

HP Color LaserJet CP-4005

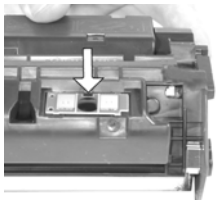
HP Black # CB400A, Cyan CB401A, Magenta CB403A, Yellow CB402A
OEM Stated Yield: 7,500 Black, 7,500 Color

This series was just released as of this writing. No information is available yet on the chips, or resets if needed. Check with your supplier for more information.

HP LaserJet 1160

HP Part # Q5949A
OEM Stated Yield: 2,500

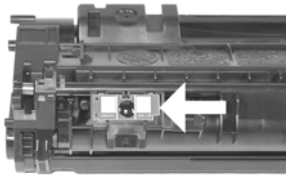
****See HP LaserJet 1320****

HP LaserJet 1300

HP Part # Q2613A/X
OEM Stated Yield: 2,500/4,000

The HP-1300 uses the second generation black toner cartridge ARD's. These chips (ARD's) only monitor toner usage not page counts. Each chip also has its own serial number which in effect gives the cartridge a serial number. After the OEM toner has been used up, the "toner low reached" code will be set to YES on the cartridge chip. Even after the cartridge is refilled, the printer display will still show "Toner Low" for the supplies status section of the menu. Since these machines do not have a display, only the supplies status page will show "Non HP Toner cartridge". If the chip is removed, the toner low sensors will be disabled, and will not work again until a new HP cartridge is installed. Replacement chips are available

HP LaserJet 1320/1160

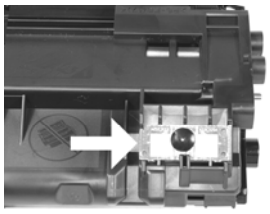
HP Part # Q5949A/X
OEM Stated Yield: 2,500/6,000

The HP-1320/1160 uses the second generation black toner cartridge ARD's. These chips (ARD's) only monitor toner usage not page counts. Each chip also has its own serial number which in effect gives the cartridge a serial number. After the OEM toner has been used up, the "toner low reached" code will be set to YES on the cartridge chip. Even after the cartridge is refilled, the printer display will still show "Toner Low" for the supplies status section of the menu. Since these machines do not have a display, only the supplies status page will show "Non HP Toner cartridge". If the chip is removed, the toner low sensors will be disabled, and will not work again until a new HP cartridge is installed. Replacement chips are available.


HP LaserJet 2300

HP Part # Q2610A
OEM Stated Yield: 6,000

The HP-2300 uses the second generation black toner cartridge ARD's. These chips (ARD's) only monitor toner usage not page counts. Each chip also has its own serial number which in effect gives the cartridge a serial number. After the OEM toner has been used up, the "toner low reached" code will be set to YES on the cartridge chip. Even after the cartridge is refilled, the printer display will still show "Toner Low" for the supplies status section of the menu. Since these machines do not have a display, only the supplies status page will show "Non HP Toner cartridge". If the chip is removed, the toner low sensors will be disabled, and will not work again until a new HP cartridge is installed. Replacement chips are available.

HP LaserJet 2400

HP Part # Q6511A/X
OEM Stated Yield: 6,000,12,000

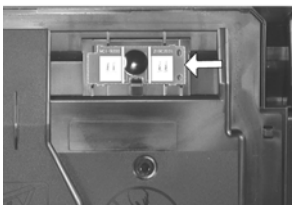
The HP-2400 uses the second generation black toner cartridge ARD's. These chips (ARD's) only monitor toner usage not page counts. Each chip also has its own serial number which in effect gives the cartridge a serial number. After the OEM toner has been used up, the "toner low reached" code will be

set to YES on the cartridge chip. Even after the cartridge is refilled, the printer display will still show “Toner Low” for the supplies status section of the menu. Since these machines do not have a display, only the supplies status page will show “Non HP Toner cartridge”. If the chip is removed, the toner low sensors will be disabled, and will not work again until a new HP cartridge is installed.. Replacement chips are available


HP LaserJet 4100

HP Part # C8061X (10K)
HP Part # C8061A (6K)

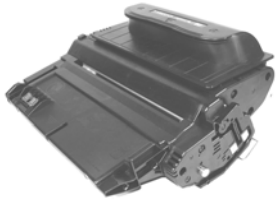
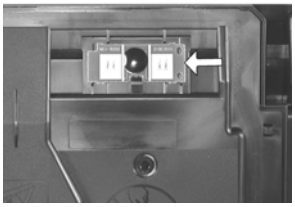
The HP-4100 was the first HP black toner cartridge to use an ARD. Unlike other chips, these only monitor usage not page counts. Each chip also has its own serial number which in effect gives the cartridge a serial number. After the OEM toner has been used up, the “toner low reached” code will be set to YES on the cartridge chip. Even after the cartridge is refilled, the printer display will still show “Toner Low” for the supplies status section of the menu. The main display will then show “Non HP Toner cartridge”. If the chip is removed, the toner low sensors will be disabled, and will not work again until a new HP cartridge is installed. Further testing on this is being conducted. Another possible use of this chip is when warranty repairs are needed**.** The machine will have a complete history of all the HP and non-HP cartridges used! Replacement chips are available.

HP LaserJet 4200

HP Part # Q1338A
OEM Stated Yield: 12,000

The HP-4200 uses the second generation black toner cartridge ARD’s. These chips (ARD’s) only monitor toner usage not page counts. Each chip also has its own serial number which in effect gives the cartridge a serial number. After the OEM toner has been used up, the “toner low reached” code will be set to YES on the cartridge chip. Even after the cartridge is refilled, the printer display will still show “Toner Low” for the supplies status section of the menu. Since these machines do not have a display, only the supplies status page will show “Non HP Toner cartridge”. If the chip is removed, the toner low sensors will be disabled, and will not work again until a new HP cartridge is installed. Replacement chips are available.

HP LaserJet 4250/4350

HP Part # Q5942A/X
OEM Stated Yield: 10,000/20,000

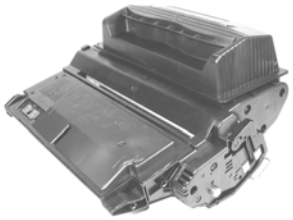
The HP-4250/4350 uses the second generation black toner cartridge ARD’s. These chips (ARD’s) only monitor toner usage not page counts. Each chip also has its own serial number which in effect gives the cartridge a serial number. After the OEM toner has been used up, the “toner low reached” code will be set to YES on the cartridge chip. Even after the cartridge is refilled, the printer display will still show “Toner Low” for the supplies status section of

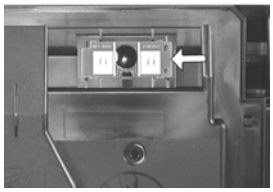
the menu. The main display will then show “Non HP Toner cartridge”. If the chip is removed, the toner low sensors will be disabled, and will not work again until a new HP cartridge is installed. Replacement chips are available.

Specific 4250 Error Codes:

“10.32.00” If it is displayed, it means the printer senses this is not an HP original cartridge, and declares the cartridge to be “Unauthorized”. This does not mean that the chip is faulty, just that it is not an actual HP cartridge.

- ✓This occurs on the 4250 Printer only when the cartridge is first installed
- ✓Pressing the "Check" button will clear the message and allow normal printing

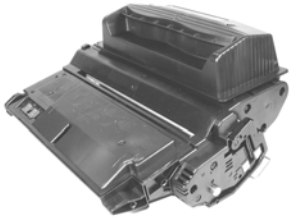


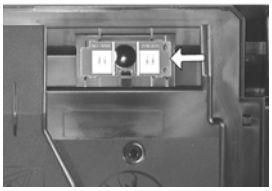


HP LaserJet 4300

HP Part # Q1339A
OEM Stated Yield: 18,000

Like the HP-4200, the HP-4300 uses the second generation black toner cartridge ARD’s. These chips (ARD’s) only monitor usage not page counts. Each chip also has its own serial number which in effect gives the cartridge a serial number. After the OEM toner has been used up, the “toner low reached” code will be set to YES on the cartridge chip. Even after the cartridge is refilled, the printer display will still show “Toner Low” for the supplies status section of the menu. The main display will then show “Non HP Toner cartridge”. If the chip is removed, the toner low sensors will be disabled, and will not work again until a new HP cartridge is installed. Replacement chips are available.





HP LaserJet 4345MFP

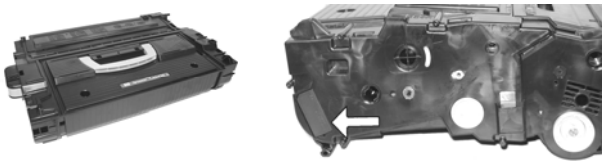
HP Part # Q5945A
OEM Stated Yield: 18,000

The HP-4345MPF uses the second generation black toner cartridge They are identical in looks and function to the rest of the 4200/4300 series. The code however for these cartridges is different from the others. New replacement chips are available.

HP LaserJet 5200

HP Part # Q7516A
OEM Stated Yield: 12,000

The HP-5200 uses the latest or 3rd generation chip. They are very small, and the code is all new. As with other HP chips, they control all toner low functions. They do not need to be replaced, but if they are not, “Unauthorized Cartridge will show on the display. New replacement chips are in development.



HP LaserJet 9000

HP Part # C4583X
OEM Stated Yield: 30,000

Like the HP-4100, the 9000 cartridge also uses a chip. The chip in the 9000 is the same as the 4100 in that they only monitor usage not page counts. Each chip also has its own serial number which in effect gives the cartridge a serial number. After the OEM toner has been used up, the "toner low reached" code will be set to YES on the cartridge chip. Even after the cartridge is refilled, the printer display will still show "Toner Low" for the supplies status section of the menu. The main display will then show "Non HP Toner cartridge". If the chip is removed, the toner low sensors will be disabled, and will not work again until a new HP cartridge is installed. New replacement chips are available.

HP LaserJet M3027/3035/P3005

HP Part # Q7551A, Q7551X
OEM Stated Yield: 6,500 Q7551A, 13,000 Q7551X

The Q7551A/X cartridges use the older 2nd generation of chips. They are identical in looks to the 4200/4300 series. As these machines had just been released at the time of this writing, no information on the chip function is available. Check with your supplier for more information.

HP LaserJet M5035

HP Part # Q7570A
OEM Stated Yield: 15,000

The M5035 uses the latest or 3rd generation chip. They are very small, and the code is all new. They are identical in looks to the 5200 series. As these machines had just been released at the time of this writing, no information on the chip function or reset if needed is available. Check with your supplier for more information.

HP LaserJet P2015

HP Part # Q7553X
OEM Stated Yield: 15,000

The Q7553X cartridges use the older 2nd generation of chips. They are identical in looks to the 4200/4300 series. The code is all new but as these machines had just been released at the time of this writing, no information on the chip function or reset if needed is available. Check with your supplier for more information.

Kyocera F-1000 OPC

Kyocera OPC Part # DK-3
OEM Stated Yield: 10,000

There is a small black fuse located on the board inside the cartridge. This fuse must be replaced each cycle by un-soldering the old and soldering in the new. This fuse is a special 250mA one that should be purchased from your supplier. The same fuse is used in the F-3010 OPC Cartridge.

Kyocera F-3010 OPC

Kyocera OPC Part # DK-2
OEM Stated Yield: 10,000

There is a small black fuse located on the board inside the cartridge. This fuse must be replaced each cycle by un-soldering the old and soldering in the new. This fuse is a special 250mA one that should be purchased from your supplier. The same fuse is used in the F-1000 OPC Cartridge.

Lexmark Chip/Machine Error Messages

"Error 32 – Unsupported Cartridge" If it is displayed IMMEDIATELY on closing the printer door after inserting the cartridge, it means:

- ✓ No chip is installed
- ✓ The printer did not make connection with the chip
- ✓ The wrong chip is installed
- ✓ The chip is damaged and not functioning

"Error 32 – Unsupported Cartridge" If it is displayed SHORTLY AFTER closing the printer door (after inserting the cartridge) and the printer has cycled, including printing a few pages, it means:

- ✓ The chip has been previously used
- ✓ The cartridge was not shaken prior to installation, some toner still compacted
- ✓ The cartridge has mechanical issues
- ✓ The chip is damaged and not functioning correctly

"Error 32 – Unsupported Cartridge" If it is displayed AFTER the printer has cycled, and many pages have been printed, it means:

- ✓ The chip may have been previously used but had not reached toner low
- ✓ The cartridge has mechanical issues
- ✓ The printer is not happy with toner flow (check if printer is used extensively – if not and has set for a while, toner may have compacted)
- ✓ The cartridge may have been removed from the printer and the exposed chip damaged in some way before reinstalling in the printer.

"929 Toner Sensor Error" (or similar). When this is displayed, it is:

- ✓ NOT chip related
- ✓ a MECHANICAL breakdown of the cartridge:
- ✓ Toner sensor gears (spring loaded clutch) are loose on the shaft. The gear is probably not fully engaged; pressing the gears back flush may fix the problem
- ✓ The mixer shaft inside the cartridge hopper has broken (no longer usable)
- ✓ Excessive toner in the hopper
- ✓ Cartridge has been used multiple times and has just worn out

"933 Print Head Error" (or similar). When this is displayed, this is a ELECTRICAL problem within the printer (laser scanner unit) or the cartridge and IS NOT chip related.

Lexmark Optra Se

Lexmark Cartridge Part # 12A0825 (Prebate), 12A0725 (Non Prebate)
OEM Stated Yield: 23,000 (Both) (Lexmark does not currently produce a low yield cartridge.)

The "Return" cartridges have an ARD installed on the top left side of the cartridge. The packaging for the chip looks more like a battery than a chip, but it is definitely a chip. New replacement chips are now available that work in both the Optra T and Optra SE series. Do not confuse the Optra T series with the T series; they are not the same. See below for more information. Other vendors such as Toshiba are also using this engine. Contact your vendor for the correct (universal) chips. On the Non-Prebate cartridges however, the chip is also present, but the killer part is not active.

Lexmark 4023
(Optra W820/Xerox 4525)

Lexmark Cartridge Part # 12B0090
OEM Stated Yield: 5840/5740: 10,000. 5845/5745: 25,000

The "Return" cartridges have an ARD on a small board located inside the right end cap of the cartridge. Unlike other Lexmark chips, the board for these cartridges has two contact pads where the machine makes direct contact. New replacement chips ARE available NOW. On the Non-Prebate cartridges the chip is also present, but the killer part is not active. These cartridges can be re-manufactured as much as you want, the chip will not interfere.

Lexmark 4069
(Optra T)

Lexmark Cartridge Part # 12A5840/12A5845 (Prebate), 12A5740/12A5745 (Non Prebate)
OEM Stated Yield: 5840/5740: 10,000. 5845/5745: 25,000

The "Return" cartridges have an ARD installed on the top left side of the cartridge. The packaging for the chip looks more like a battery than a chip, but it is definitely a chip. This package allows a special reader inside the machine to read the chip with out any wires connecting it. New replacement chips are now available that work in both the Optra T and Optra SE series. Do not confuse the Optra T series with the T series; they are not the same. See below for more information. Other vendors such as Toshiba are also using this engine. Make sure your replacement chip is universal or brand specific if using in these machines. Contact your vendor for the correct chips. On the Non-Prebate cartridges the chip is also present, but the killer part is not active. These cartridges can be re-manufactured as much as you want, the chip will not interfere.

Lexmark 4045
(Optra M)

Lexmark Cartridge Part # 17G0152/17G0154
(4K00198/4K00199 Discontinued)
OEM Stated Yield: 0152: 5,000, 0154: 15,000

Included here only because of the physical similarity to the other Optra S, Se. & T. These cartridges do not have any chips, or anything else that has to be reset. They even eliminated the Yield Wheel! At this time there are only "standard " cartridges, Prebate cartridges have not been released, and there does not seem to be any plans for Lexmark to do so.

Lexmark E120

Lexmark Cartridge Part 12015SA (Return Program), 12035SA (Standard)
OEM Stated toner Yield: 2,000
OPC Cartridge: 12026XW
OEM Stated Drum Yield: 25,000

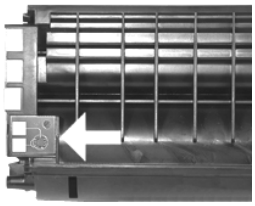
Toner cartridge: This system uses a separate toner and drum cartridge. The "Return program" toner cartridge has a "Killer Chip" on it that must be replaced each cycle. On the Standard cartridges the chip is also present, but the killer part is not active. The Standard cartridges can be re-manufactured as much as you want, the chip will not interfere. In both cases, the chips use the new "Overdrive code". Make sure your supplier is up to date with the proper code.

E-120 Drum cartridge: With the printer turned on, open the front door. Press and hold the CANCEL button until all the lights begin to cycle. Close the front door. Press the continue button to resume printing.

Lexmark E220

Lexmark Cartridge Part 12S0300 (Return Program), 12S0400 (Standard)
OEM Stated Yield: 2,500

This system uses a separate toner and drum cartridge. The "Return program" toner cartridge has a "Killer Chip" on it that must be replaced each cycle. On the Standard cartridges the chip is also present, but the killer part is not active. These cartridges can be re-manufactured as much as you want, the chip will not interfere.



Lexmark E23x/24x/33x/34x

Lexmark OLD Toner Cartridge Part #'s 12A8400, 12A8405 (Return Program), 12A8300, 12A8305 (Standard)
OEM Toner Stated Yield: 2,500 (8400,8300) 6,000 (8405, 8305)

Lexmark NEW Toner Cartridge Part #'s 24015SA, 34015HA (Return Program), 24035SA, 24035HA (Standard)
OEM Toner Stated Yield: 2,500 (240 cartridges) 6,000 (340 cartridges)

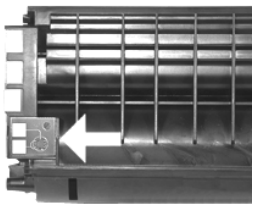
OEM Drum cartridge 12A8302, Stated drum yield: 30,000

Toner cartridges: The "Return" toner cartridges have an ARD on a small board located inside the right end cap of the cartridge. Like other cartridges in this series, the board for these cartridges has two contact pads where the machine makes direct contact. New replacement chips are available now. On the Non-Prebate cartridges the chip is also present, but the killer part is not active. The Standard cartridges can be re-manufactured as much as you want, the chip will not interfere. In both cases, the chips use the new "Overdrive code". Make sure your supplier is up to date with the proper code. There are multiple other printer brands that use this engine. Some manufacturers have universal chips, some have individual chips. Make sure you have the correct ones.

E23x, e33x, and E240 Drum units: With the printer turned on and in the READY state, open the front cover. Press and hold the CANCEL button until all the lights begin flashing up and down. Release the CANCEL button and close the door.

E340, E342 Drum units: Turn the printer off**.** With the printer still off, press and hold the SELECT and RETURN buttons. While still holding the buttons down, turn the printer back on. Keep holding them down until the screen shows PERFORMING SELF TEST or CONFIG MENU. Release the buttons when either of these messages are displayed. Press the left or right arrow buttons until RESET PC CNT appears on the display. Press the SELECT button. When the display shows CONFIG MENU again, turn the printer off. Wait 5 seconds and turn the printer back on. (Do not hold any buttons down this time). The counter is reset!

DELL 1700/1710 Drum units: With the printer on, press and hold the CANCEL button. The counter is reset when all the LEDs flash in sequence.



Lexmark E238

Lexmark Toner Cartridge Part #'s 23800SW, (Return Program),
23820SW (Standard)
OEM Toner Stated Yield: 2,000
OEM Drum cartridge 12A8302, Stated drum yield: 30,000

Toner cartridges: The "Return" toner cartridges have an ARD on a small board located inside the right end cap of the cartridge. Like other cartridges in this series, the board for these cartridges has two contact pads where the machine makes direct contact. New replacement chips are available now. On the Non-"Return" cartridges the chip is also present, but the killer part is not active. The Standard cartridges can be re-manufactured as much as you want, the chip will not interfere. In both cases, the chips use the new "Overdrive code". Make sure your supplier is up to date with the proper code. There are multiple other printer brands that use this engine. Some manufacturers have universal chips, some have individual chips. Make sure you have the correct ones.

E238 Drum units: With the printer turned on and in the READY state, open the front cover. Press and hold the CANCEL button until all the lights begin flashing up and down. Release the CANCEL button and close the door.

Lexmark E250/350

Lexmark Toner Cartridge Part #'s E250A11A, (Return Program),
E250A21A (Standard)
OEM Toner Stated Yield:
OEM Drum cartridge E250X22G, Stated drum yield:

This series was just released as of this writing. No information is available yet on the chips, or resets if needed. Check with your supplier for more information.

Lexmark E450

Lexmark Toner Cartridge Part #'s E450A11A, (Return Program),
E450H11A (Standard)
OEM Toner Stated Yield:
OEM Drum cartridge E250X22G, Stated drum yield:

This series was just released as of this writing. No information is available yet on the chips, or resets if needed. Check with your supplier for more information.

Lexmark 4500 (E320/322)

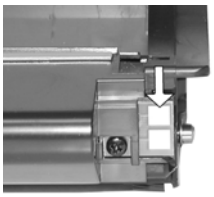
Lexmark Cartridge Part # 08A0476/08A0478 (Prebate), 08A0477 (Non Prebate))
OEM Stated Yield: 0476: 3,000, 00478/0477: 6,000

The "Return" cartridges have an ARD on a small board located inside the right end cap of the cartridge. Unlike other Lexmark chips, the board for these cartridges has two contact pads where the machine makes direct contact. New replacement chips are available now. On the Non-Prebate cartridges the chip is also present, but the killer part is not active. These cartridges can be re-manufactured as much as you want, the chip will not interfere.


Lexmark E321/323

Lexmark Cartridge Part 12A7400/12A7405 (Prebate), 12A7305 (Non Prebate))
OEM Stated Yield: 3,000 (7400), 6000 (7305)

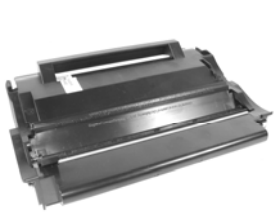
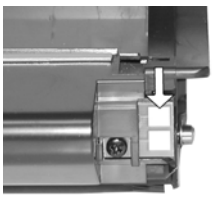
The "Return" cartridges have an ARD on a small board located inside the right end cap of the cartridge. Like other cartridges in this series, the board for these cartridges has two contact pads where the machine makes direct contact. New replacement chips are available now. On the Non-Prebate cartridges the chip is also present, but the killer part is not active. These cartridges can be re-manufactured as much as you want, the chip will not interfere. There are multiple other printer brands that use this engine. Make sure your replacement chip is universal or brand specific if using in these machines.

Lexmark T420

Lexmark Cartridge Part # 12A7410/12A7415
OEM Stated Yield: 12A7410 5,000: 12A7415 10,000

The "Return" cartridges have an ARD installed on the front left side of the cartridge, (as the cartridge would be inserted into the machine). Other vendors such as Toshiba and IBM, and Dell are also using this engine. Contact your vendor for the correct chips. On the Non-Prebate cartridges however, the chip is also present, but the killer part is not active. These cartridges can be re-manufactured as much as you want, the chip will not interfere.

Lexmark T430

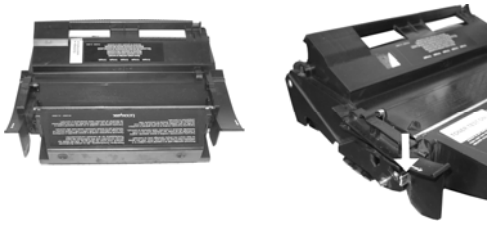
Lexmark Cartridge Part # 12A8420/12A8425
Non-return # 12A7310/12A7315
OEM Stated Yield: 12A8420 6,000: 12A8425 12,000

The "Return" cartridges have an ARD installed on the front left side of the cartridge, (as the cartridge would be inserted into the machine). Other vendors such as Toshiba and IBM, and Dell are also using this engine. Make sure your replacement chip is universal or brand specific if using in these machines. On the Non-"Return" (return) cartridges however, the chip is also present, but the killer part is not active. These cartridges can be re-manufactured as much as you want, the chip will not interfere.


Lexmark T520/522

Lexmark Cartridge Part # 12A6730/12A6830
12A6735/12A6835
OEM Stated Yield: 6730/6830 7,500: 6735/6835 20,000

The "Return" cartridges have an ARD installed on the right side of the cartridge, (as the cartridge would be inserted into the machine). These chips are physically located in a different spot from the older Optra T cartridges. New replacement chips are now available. Other vendors such as Toshiba and IBM are also using this engine. Make sure your replacement chip is universal or brand specific if using in these machines. On the Non-Prebate cartridges however, the chip is also present, but the killer part is not active.



Lexmark T620/622

Lexmark Cartridge Part # 12A6760/12A6860 12A6765/12A6865

OEM Stated Yield: 6760/6860 10,000: 6765/6865 20,000

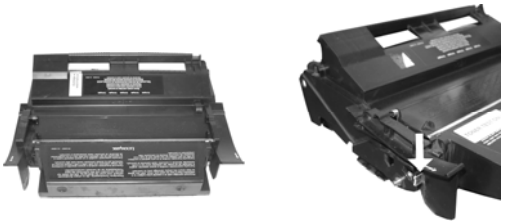
The “Return” cartridges have an ARD installed on the right side of the cartridge, (as the cartridge would be inserted into the machine. These chips are physically located in a different spot from the older Optra T cartridges. New replacement chips are now available. Other vendors such as Toshiba and IBM are also using this engine. Make sure your replacement chip is universal or brand specific if using in these machines. On the Non-Prebate cartridges however, the chip is also present, but the killer part is not active. These cartridges can be re-manufactured as much as you want, the chip will not interfere. The “T520/522”, “T620/622” and Optra T/SE series all use different chips. None are interchangeable.

Lexmark T630/T632

Lexmark Cartridge Part # 12A7360/12A7362 12A7365

OEM Stated Yield: 5K/21K/32K/ Respectively

The “Return” cartridges have an ARD installed on the right side of the cartridge, (as the cartridge would be inserted into the machine). These chips are physically located in same spot as the T520/T620 chips. Other vendors such as Toshiba, IBM, and Dell are also using this engine. Make sure your replacement chip is universal or brand specific if using in these machines. On the Non-Prebate cartridges however, the chip is also present, but the killer part is not active. These cartridges can be re-manufactured as much as you want, the chip will not interfere. The “T520/522”, “T620/622”, T630 Series and Optra T/SE series all use different chips. None are interchangeable. The SHY 32K cartridge is designed to work only in the T632/T634 machines



Lexmark T640/T642/644

Lexmark Cartridge Part # 64015SA (Return), 64015HA, (Return) 64415XA (Return)

OEM Stated Yield: 6K/21K/32K/ Respectively

Non-return cartridges: 64035HA, (21K), 64435XA (32K)

All 32K cartridges are for use in the T644 only. The “Return” cartridges have a killer chip installed on the right side of the cartridge, (as the cartridge would be inserted into the machine). These chips are physically located in same spot as the T520/T620/T630 chips. Other vendors such as Toshiba, IBM, and Dell are also using this engine. Make sure your replacement chip is universal or brand specific if using in these machines. On the Non-“Return” cartridges however, the chip is also present, but the killer part is not active. These cartridges can be re-manufactured as much as you want, the chip will not interfere. The “T520/522”, “T620/622”, T630, T640 Series and Optra T/SE series all use different chips. None are interchangeable. The SHY 32K cartridge is designed to work ONLY in the T644 machines.

Lexmark W812

(Fuji-Xerox XP-26)
Lexmark Cartridge Part # 14K0050
OEM Stated Yield: 12,000

These cartridges use a chip, but it is not the "Killer type" These chips monitor the "Toner Low" as well as tell the machine the brand of cartridge it is. So far we have seen Lexmark, Epson, and IBM machines using these cartridges. The chips for each brand are different. Initial tests show that the chip can be re-used for at least one cycle with no issues. Testing is still ongoing.

Minolta PageWorks 8

Xerox Drum Cartridge Part # 106R42
OEM Stated Yield: 6,000
Sharp FO-4400/4450/DC5500 Toner Cartridge Part # FO-55ND

There are many versions of PW8 drum cartridges, but only those used in the WorkCentre pro 555/575 need to be reset. The reset procedure is as follows:

Press the "MENU" button, and then the numbers "5", "2", "0", and "4"
Press "1"
Press "ENTER".
Press "STOP"
To replace the drum cartridge (click here)
(We do not have this particular machine so I do not know exactly what that last line means. This information is straight from Xerox.)

Sharp FO-55ND Toner Cartridge: These cartridges have a chip that must be replaced each cycle. New replacement chips are available

Minolta PageWorks 1350

Minolta Drum Cartridge Part # 1710568-001
OEM Stated Yield: 20,000

There are a few different reset procedures for the drum units, all dependant on the machine. All are done either by the Printer menu, or through the printer driver:

Minolta PageWorks 1350W:

Hold down the START/STOP and the INFORMATION buttons while turning on the printer. Hold them until the Ready (green) and Error (red) lights turn on.

Epson EPL-6200:

Hold down the START/STOP and the INFORMATION buttons while turning on the printer. Hold them until the Ready (green) and Error (red) lights turn on.

Epson EPL-6200L Windows:

Double click on the printers/faxes icon. Right click the icon for this printer. Click on the PRINTER SETTINGS button on the printer drivers OPTIONAL SETTINGS menu. Then click on the OPC LEVEL CLEAR or RESET OPC LEVEL button. Click on OK, the printer is reset.

Epson EPL-6200L Macintosh:

Access the REMOTE CONTROL PANEL utility, and then click SETTING. Click on the OPC LEVEL CLEAR, PHOTOCONDUCTOR LIFE RESET or RESET OPC LEVEL button. Click on OK, the printer is reset.

Minolta PageWorks 1400

Minolta Toner cartridge Part #9J04203
Minolta Drum Cartridge Part # M4519401
OEM Stated Yield Toner: 2,000
OEM Stated Yield OPC: 20,000

Toner Cartridge: These toner cartridges have a chip that must be replaced each cycle. The chip is located on the bottom left side of the cartridge. There are different chips used for different areas around the world. Make sure you have the correct chip for your region.

Minolta Color PageWorks

Minolta Part # 1710437-001 (Black), 1710437-004 (Cyan), 1710437-003 (Magenta), 1710437-002 (Yellow)
Old Minolta Part Numbers 0940-501/701/401/601 Discontinued
OEM Stated Yield: 20,000 (Minolta and Lexmark)

Lexmark Optra SC 1275 Toner

Lexmark Part # 1361751 (Black), 1361752 (Cyan), 1361753 (Magenta), 1361754 (Yellow)

The Minolta Color PageWorks Toner cartridges all have a glass fuse located under the two metal contacts on the bottom of the cartridge. The replacement fuse is a fast acting, 5 x 20mm, 250V, 80mA, glass type. These fuses should be replaced every cycle. The Minolta and Lexmark cartridges are NOT interchangeable. The small fins on the bottom of each are in different locations. These fins will block the installation of the wrong cartridge into the machine. The same fuses are used for both cartridge types.

Mita LDC-650

Mita Cartridge Part # 63582010, Pitney Bowes Part # 9640
OEM Stated Yield: 10,000

On the gear side of the cartridge there is a large white gear with a floating tab mechanism that has two notches in it. For the machine to accept the cartridge as new, the tab must be set so that the outermost notch is engaged. Be careful to reset this tab after testing, as it will automatically move to the inner notch every time the cartridge is installed. If the tab is left in this position, the machine will show change cartridge when the cartridge is installed.

NEC LC-800 OPC

NEC OPC Cartridge Part # 20-020
OEM Stated Yield: 7,000

With the power on, open the cover.
Press and hold the PC RESET button down. While continuing to press the button, insert the OPC cartridge. Release the button and close the door.
Press the ONLINE button. The counter is reset

OKIDATA DRUM CARTRIDGES

Okidata over the years has released a lot of printers/fax machines all with different engines. Unfortunately almost all of them require a different reset procedure. In fact even some of the machines that use the same engine have different reset procedures! The following procedures are grouped by the Engine, (underlined), and then by the machine model number/s. The machine model numbers are also in a slightly smaller point size. The first “OL”

engine is the Okidata OL-400/800, but the first actual reset procedure is for the OL-800 series only, followed by other machines that use the same engine but have different reset procedures. Just to make things a little crazier, there are also machines that use different engines, but use the same reset procedure. These are grouped as above, but with a note that says what other machines also use that procedure.
Hopefully this will help clear up some of the confusion on what procedures to use.

Okidata B4200/4300 Series

Okidata OPC Cartridge Part # 42102801
25,000

B4200:
Start the status monitor for the printer. Click on the Printer Setup Tab-Printer Menu Button-Maintenance 1 Tab. Click the (RESET) button next to the drum counter, then click on OK button to reset the drum counter.

B4300:
Press the ONLINE button to return the printer to off line status. Press the MENU button until MAINTENANCE MENU is displayed, then press the SELECT button. Press the ITEM button until DRUM COUNT RESET is displayed. Press the SELECT button and drum counter is reset.

Okidata B6100 Series

Okidata Cartridge Part # 52113704, 52113701
6,000, 15,000 respectively

Press the MENU button until the display shows "paper menu". Press NEXT 4x until the display shows "System Menu". Press SELECT 1x until the display shows "Factory defaults". Press NEXT 7x until the display shows "Reset Toner Life". Press SELECT 1x until the display shows "Resetting Toner page Count". Press READY

Okidata B6200/6300 Series

Okidata Cartridge Part # 52114501, 52114502
(6300 only)
OEM Stated Yield: 10,000, 17,000 respectively

Unlike most of the other Okidata machines, these cartridges use a chip that has to be replaced. It uses an odd round style ship, and there are many manufacturers using them. Most have different chips. Make sure you have the correct chip for the machine it is intended for.

Okidata B8300 Series

Okidata Cartridge Part # 56115001
OEM Stated Yield: 27,000

NOTE: I have not seen these cartridges or machines. When a new cartridge (OEM) is installed, it should clear the message. (You have to install it with the power off). If the power is left on. It will not reset itself, then the following complicated procedure must be followed. At this point I do not know if the cartridge has a reset gear or a chip.

Enter the PCU Diagnostic mode by turning the printer off and holding down the MENU and OK buttons on power up. (Release the buttons once you are in the PCU DIAG MODE). Press the MENU button 14x until the display shows "COUNTER DISPLAY". Press the MENU button and the BACK?C button at the same time. This will put the printer into the "Feed Counter Clear Mode". Release the buttons. Press the up arrow 5x until the display shows "Toner Counter Clear". Pres the OK button, the display will show "Toner No". Press the Up Arrow 1x so the display shows "Toner Yes", Press the OK button. The Green data light will flash to indicate the process is complete. Turn the printer off and on to clear the PCU DIAG mode.

Okidata C3000 Series

Okidata OPC Color Cartridge Part # 42126661, 42126660, 42126659, 42126658
OEM Stated Yield: 15,000 All

These machines have a glass fuse that is used to reset the machine. The fuse is located in the gear end cap of the cartridge. We have not confirmed this yet, but we believe that the fuse is the same as the SF-5100. The fuse must be replaced each cycle.

Okidata C5100 Series

Okidata OPC Color Cartridge Part # 42126604, 42126603, 42126602, 42126601
OEM Stated Yield: 15,000 All

These machines have a glass fuse that is used to reset the machine. The fuse is located in the gear end cap of the cartridge. We have not confirmed this yet, but we believe that the fuse is the same as the SF-5100. The fuse must be replaced each cycle

Okidata OL-400/800 OPC

Okidata OPC cartridge part # 56106601
OEM Stated Yield: 15,000

Although all of these machines use the same cartridge, the reset procedures are different.

Reset procedure for the Okidata OL-800 Series Printers

Turn off the printer
While holding the MENU1/MENU2 button down, turn the printer back on. Keep holding the button down until you see "MAINTENANCE MODE" on the display panel. Release the button.
Press the MENU1/MENU2 button three times. The display will read "DRUM COUNT RESET".
Press the ENTER/QUIET button. The display will read "DRUM COUNT RESET RESETTING", then "INITIALIZING", then "WARMING UP", and finally "ON LINE". The counter is reset!

Reset procedure for all other OL series Laser Printers.

Turn the printer off.
Press and hold the RESET button (not the Menu Reset), and turn the printer on. Hold the button down until you see "DRUM RESET" on the display. Release the button.
Run a self-test. Turn the printer off-line and press the PRINT
FONT/SELF TEST button once and release. The printer will print out a page with the installed fonts, and the page count of the printer.

Reset procedure for the "DOC-IT" Document Processing Systems.

Turn the DOC-IT on, and re-initialize it: either re-boot the computer, or type DOCIT at the DOS prompt and press enter.
Press and hold the ENTER key for 3 seconds, when you release it you should see "Administration" on the display.
Press the down arrow key until you see: Reset drum ctr.? YES/NO
Press the left arrow key to move the check mark next to "YES". Then
Press ENTER.
Press any key to leave the Administration menu.
The counter is reset!

Okidata OL-400e OPC

Okidata OPC Cartridge Part # 56116801
OEM Stated Yield: 20,000

(The procedure for these machines is the same as used for the Okidata OL-1200, OP-20)

Turn off the printer
While holding the MENU1/MENU2 button down, turn the printer back on. Keep holding the button down until you see USER MNT on the display panel. Release the button.
Press the MENU1/MENU2 button three times. The display will read DRUM CTR RESET.
Press the ENTER button. The display will read WARMING UP, and finally ON LINE.
The counter is reset!

OL-600e/610e

Okidata OPC Cartridge Part # 56116801
OEM Stated Yield: 20,000

(The procedure for these machines is the same as used for the Okidata OP-6e, OL-600e, OP-10e, and OP-14e)

From the computer the printer is directly hooked up to, enter the Printer Status Monitor.
Click on the "Settings" Tab.
Under "Reset Item" click "Drum Count", and then "Reset".
The Counter is reset!

OkiPage 6e

Okidata OPC Cartridge Part # 56116801
OEM Stated Yield: 20,000

(The procedure for these machines is the same as used for the Okidata OP-6e, OL-600e, OP-10e, and OP-14e)

From the computer the printer is directly hooked up to, enter the Printer Status Monitor.
Click on the "Printer Menu" tab.
Click on the "Maintenance" tab.
Click on the "Drum Counter Reset" tab.
The Counter is reset!

OkiFax 1000/1050/5300/5400/5600/5650

Okidata OPC Cartridge Part # 56116901
OEM Stated Yield: 20,000

(The procedure for these machines is the same as for the OP-4W, and the OP-8W)

Wait until the time, date and answering mode appear on the display. Then press the Select Function key.
Press the 7/Counter Display One Touch Key. The display shows Drum Count.
Press the Yes (left arrow) key to clear the counter
Press the select Function key to finish.
The Counter is reset

OkiFax 2400/2600

Okidata OPC Cartridge Part # 56116901
OEM Stated Yield: 20,000

Unlike most of the other Okidata printer/Fax machines, there is also a counter that must be reset for the toner cartridge! The following information will allow you to reset the Toner, Drum, Machine, and the fuser page count. Okidata strongly recommends that the Machine Page Count, and the Fuser Page Count be left alone.

Wait until the time, date and answering mode appear on the display. Then press the "Select Function" key. Press the "28/Print Counter" key. This first counter is the Machine Page Count. Leave this counter alone! Press the "Yes/Left Arrow" key. The page count of the toner cartridge will show on the display. To reset the Toner Count press the "Right Arrow/No" key. To bypass this counter, press the "Yes/Left Arrow" key. If you pressed the "No" key, the display will say "Toner Count Clear?" Press the "Yes/Left Arrow" key. Then "Are You Sure?" will display. Press the "Yes/Left Arrow" key again to reset the toner count.

The next counter that will display is the Drum Count. If you have just replaced the drum cartridge and need to reset the drum counter, Press the "Right Arrow/No" key. The display will ask if you want to clear the counter. Press the "Yes/Left Arrow" key twice. If you only wish to view the drum count without resetting it, press the "Yes/Left Arrow" key instead of the "No" key. The next counter to show on the display is the Fuser. Press the "Select Function" key to return to the standby mode.

Okidata OL-1200 OPC

Okidata OPC Cartridge Part # 56118801
OEM Stated Yield: 30,000
(The procedure for these machines is the same as used for the Okidata OL-400e, and OP-20)

Turn off the printer
While holding the MENU1/MENU2 button down, turn the printer back on. Keep holding the button down until you see USER MNT on the display panel. Release the button.
Press the MENU1/MENU2 button three times. The display will read DRUM CTR RESET.
Press the ENTER button. The display will read WARMING UP, and finally ON LINE. The counter is reset!

Okidata OP-4W

Okidata OPC Cartridge Part # 56114101
OEM Stated Yield: 10,000
(OkiOffice 44/OkiPage 4W)
(The procedure for these machines is the same as for the OkiFax 1000/1050/5300/5600, but with a different cartridge).

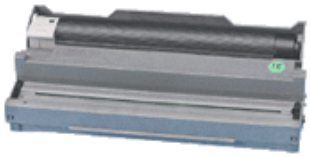
Wait until the time, date and answering mode appear on the display. Then press the Select Function key. Press the 7/Counter Display One Touch Key. The display shows “Drum Count”.
Press the Yes (left arrow) key to clear the counter
Press the select Function key to finish.

Okidata OP-8W

Okidata OPC Cartridge Part # 40709901 (Type 6)
(Okidata OP-6W/8W/OkiOffice 84)
OEM Stated Yield: 10,000

(Again, the procedure for these machines is the same as for the OkiFax 1000/1050/5300/5600, and the OP-4W, but with a different cartridge).

Wait until the time, date and answering mode appear on the display. Then press the Select Function key. Press the 7/Counter Display One Touch Key. The display shows “Drum Count”.
Press the Yes (left arrow) key to clear the counter
Press the select Function key to finish.



Okidata OP-10e

Okidata OPC Cartridge # 40433305 (Type 5)
OEM Stated Yield: 20,000
(The procedure for these machines is the same as used for the Okidata OP-6e, OL-600e, OP-14e)

From the computer the printer is directly hooked up to, enter the Printer Status Monitor. Click on the “Printer Menu” tab. Click on the “Maintenance” tab. Click on the “Drum Counter Reset” tab.

Okidata OP-14e

Okidata OPC Cartridge Part #41331601 (Type 8)
OEM Stated Yield: 20,000

(The procedure for these machines is the same as used for the Okidata OP-6e, OL-600e, OP-10e)

From the computer the printer is directly hooked up to, enter the Printer Status Monitor. Click on the "Printer Menu" tab. Click on the "Maintenance" tab. Click on the "Drum Counter Reset" tab.

Okidata OP-20/24 OPC

Okidata OPC Cartridge Part # 40468701
OEM Stated Yield: 30,000

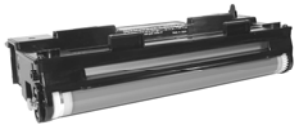
(The procedure for these machines is the same as used for the Okidata OL-400e, OP-20, & OP-24)

Turn off the printer. While holding the MENU1/MENU2 button down, turn the printer back on. Keep holding the button down until you see USER MNT on the display panel. Release the button.
Press the MENU1/MENU2 button three times. The display will read DRUM CTR RESET.
Press the ENTER button. The display will read WARMING UP, and finally ON LINE. The counter is reset!

OkiFax 5700/5900

Okidata OPC Cartridge Part # 40433308
20,000

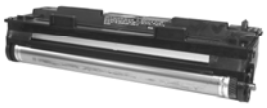
Press the "Menu/Exit" key. Press the "Down Arrow" until the display shows "Counter".
Press "Enter" twice. Press "Clear" twice. Press the "Menu/Exit" key. The counter is reset!

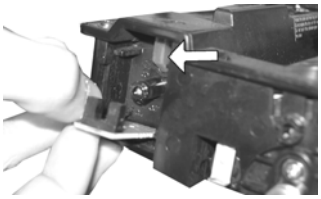


Panasonic KXP-4400 OPC Cartridge

Panasonic OPC Cartridge part # KX-PDM6
OEM Stated Yield: 6,000

This cartridge uses an optical reset. The waste chamber must be spotless!! There is a float inside that moves up as the waste toner increases. There is a small clear piece of plastic on the waste chamber with a black plastic float inside. This must be spotless and the float should be at the base. If this piece is dusty, or the float is up the printer will not reset.





Panasonic KXP-4410 OPC Cartridge

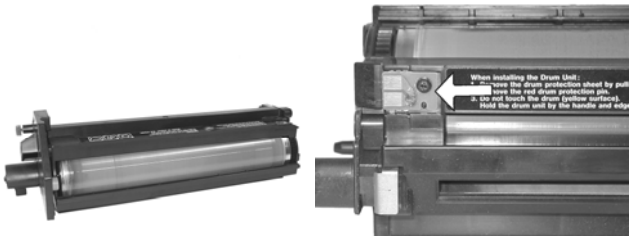
Panasonic OPC Cartridge part # KXPDM4/5
OEM Stated Yield: 12,000

This cartridge uses an optical reset. The waste chamber must be spotless!! There is a float inside that moves up as the waste toner increases. If you remove the small circuit board on the side you will see a small clear piece of plastic. This must be spotless and the float should be at the base. If this piece is dusty, or the float is up the printer will not reset.

Panasonic KXP-4420 Toner/4420 OPC

Panasonic cartridge Part #'s KX-P451, KX-PDM2
OEM Stated Yield: 18,000

Both of these cartridges use a simple 1/16 amp fuse that must be soldered in. The OEM fuse looks like a black transistor. Most of the replacement fuses being sold are in a resistor type package. The physical looks of the fuse don't matter as long as it is 1/16 Amp-fast blow. This is the same fuse as used in the 4450 OPC cartridge.



Panasonic KXP-4450 OPC Cartridge

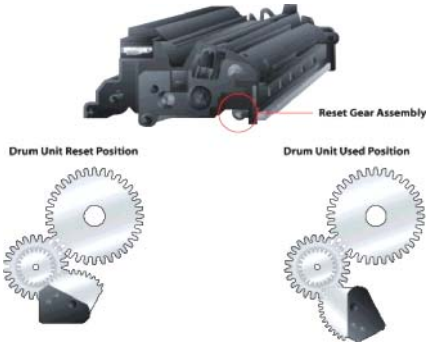
Panasonic OPC Cartridge part # KX-PDM1
OEM Stated Yield: 13,000

These cartridges use a simple 1/16 amp fuse that must be soldered in. The OEM fuse looks like a black transistor. Most of the replacement fuses being sold are in a resistor type package. The physical looks of the fuse don't matter as long as it is 1/16 Amp-fast blow. This is the same fuse as used in the 4420 cartridges.

Panasonic KXP-6100 OPC Cartridge

Panasonic OPC Cartridge part # KX-PEP2
OEM Stated Yield: 15,000

The only known method is to reset the machine through the computer that is attached to the printer. When the change drum error message is displayed on your computer screen, press CTRL, + SHIFT, +F1 all at the same time. This will clear the drum count on the printer. We are continuing to look into resetting the printer by itself.



Ricoh Aficio 200 OPC Cartridges

Ricoh OPC Cartridge # 209622 (Type 250)
OEM Stated Yield: 45,000

The reset gear in the Ricoh Aficio 200 OPC cartridge has a different purpose than most reset mechanisms. Most resets set the cartridge page count back to zero. In the Aficio 200, it lets the machine know that a new cartridge has been installed. The machine then takes readings from its sensors to measure the charge of the developer and drum. From those readings it sets up the density for that drum unit.
If the gear is not reset, the machine will continue to think the old cartridge is installed, and use the old settings. This usually causes either light prints, or backgrounding.

It is also important to note that the replacement aftermarket developer was designed to work with the replacement drum as a matched system. In our tests, the OEM drum will not last another cycle.

Ricoh 4080/4150 OPC Cartridges

Ricoh 4080 OPC Cartridge # 5397-36
OEM Stated Yield: 4080: 10,000, 4150:12,000

Place a ¾" piece of "Scotch Tape" over the rectangular hole on the right front cover. The tape

will momentarily press in a lever inside the machine and start to reset the counter. The tape will then break releasing the lever finishing the reset procedure. Make sure you use a thin tape and not a packing tape, as it is important that the tape break fairly easily.

Samsung CLP-300 Toner Cartridges

Samsung Toner Cart. # CLP-K300A, CLP-C300A, CLP-M300A, CLP-Y300A
Samsung OPC Cartridge Part # CLP-R300A
OEM Stated Toner Yield: 2,000 Black, 2,000 Color
OEM Stated Yield OPC 20,000 Black, 12,500 Color

The toner cartridges for these machines all use a chip that must be replaced each cycle. At the time of this writing, the chips are in development, but they should be available by the time you read this.

Samsung CLP-500 Toner Cartridges

Samsung Toner Cart. # CLP-500D7K, CLP-500D5C, CLP-500D5M, CLP-500D5Y
OEM Stated Yield: 7,000 Black, 5,000 Color
Samsung OPC Cartridge Part # CLP-500RB/XAA

Toner Cartridge: These cartridges have a flame proof resistor that must be replaced each cycle. The resistor is a 56 Ohm 1/4W FLAME PROOF type, and is located in a small connector on the side of the cartridge. It is extremely important that the correct FLAME PROOF resistor be used or printer damage and/or a printer fire may occur!

Drum Cartridge: Press the MENU button Press the RIGHT ARROW button 4x until “Setup” shows on the display. Press ENTER. Press the RIGHT ARROW button 5x until “Maintenance” shows on the display. Press ENTER. Press the RIGHT ARROW button until “Check others” shows on the display. Press ENTER. Press the RIGHT ARROW button until “Imaging unit” shows on the display. Press ENTER. Press the RIGHT ARROW button until “Reset” shows on the display. Press ENTER. **The counter is reset!**

Samsung CLP-510 Toner/OPC Cartridges

Samsung Cart. # CLP-510D7K, CLP-510D5C, CLP-510D5M, CLP-510D5Y
OEM Stated Yield: 7,000 Black, 5,000 Color

Toner Cartridge: While these cartridges look at first glance identical to the CLP-500, they are different. The biggest difference is that they use a chip instead of a resistor to reset the printer. The chip must be replaced/reset each cycle. Reset boxes are available to reset the OEM as well as aftermarket chips. Some reset boxes will also allow the change from one manufacturer to another.

Drum Cartridge: Press the MENU button Press the RIGHT ARROW button 4x until “Setup” shows on the display. Press ENTER. Press the RIGHT ARROW button 5x until “Maintenance” shows on the display. Press ENTER. Press the RIGHT ARROW button until “Check others” shows on the display. Press ENTER. Press the RIGHT ARROW button until “Imaging unit” shows on the display. Press ENTER. Press the RIGHT ARROW button until “Reset” shows on the display. Press ENTER. **The counter is reset!**

Samsung CLP-600 Toner/OPC Cartridges

Samsung Cart. # CLP-K600A, CLP-C600A, CLP-M600A, CLP-Y600A
OEM Stated Yield: 4,000 Black, 4,000 Color

These cartridges use a chip that must be replaced each cycle. The chip is located on the rear of the waste hopper. There is no known reset method through the printers menu.

Samsung ML-1210 Toner Cartridges

Samsung SF-5100Cart. # TDR-510P
OEM SF-5100 Stated Yield: 3,000
OEM ML-1210 Stated Yield: 2,500

There are a few different versions of these cartridges. Some use a fuse some do not. Those that do use a 5 x 20 mm, glass, fast acting, 63 mA, 125V fuse to reset the counter. The fuse is located on the front leading edge of the cartridge. Starter cartridges do not have a fuse, but will need one when the cartridge is rebuilt.
Lexmark E210 No fuse, Samsung ML-1210 No fuse, Nashuatec F-102 Needs Fuse, Samsung SF-5100 Needs fuse

Samsung ML-1610 Toner Cartridges

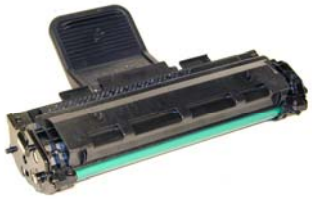
Samsung Cart. # ML-1610D2
OEM Stated Yield: 2,000

These cartridges use a 5 x 20 mm, glass, fast acting, 63 mA, 125V fuse to reset the counter. The fuse is located on the front leading edge of the cartridge. Starter cartridges do not have a fuse, but will need one when the cartridge is rebuilt. The holder is already there on the starter cartridges, there is just no fuse present.

Samsung ML-1750 Toner Cartridges

Samsung Cart. # ML-1750D3/XAA
OEM Stated Yield: 3,000

There are a few different versions of these cartridges. Some use a fuse some do not. Those that do use a 5 x 20 mm, glass, fast acting, 63 mA, 125V fuse to reset the counter. The fuse is located on the front leading edge of the cartridge. Starter cartridges do not have a fuse, but will need one when the cartridge is rebuilt.
Samsung ML-1750 No fuse, Samsung SCX-4216, and SF-550 both need a fuse, and the Xerox PE-16, Phaser 3130 and X215 all need a fuse.



Samsung ML-2010 Toner Cartridges

Samsung Cart. # ML-2010D3
OEM Stated Yield: 2,000

There are a few different versions of these cartridges. Some use a fuse some do not.
Those that do use a 5 x 20 mm, glass, fast acting, 63 mA, 125V fuse to reset the counter. The fuse is located on the front leading edge of the cartridge. Starter cartridges do not have a fuse, but will need one when the cartridge is rebuilt. Samsung ML-2010 No fuse, Samsung SCX-4521 Needs fuse, Xerox Phaser 3117/3122 Needs fuse, Xerox WorkCentre/Copy Centre PE-220 Needs a Chip NOT a fuse. (Just to be different).

Samsung ML-2150 Toner Cartridges

Samsung Cart. # ML-2150D8/XAA
OEM Stated Yield: 8,000

These are the first Samsung cartridges to use a chip. The chips can sometimes be used another cycle, but to be safe it is best to replace them each cycle. There are different manufacturers using this engine. Each manufacturer has it's own separate chip. Reset boxes are available to reset the OEM as well as aftermarket chips. Some reset boxes will also allow the change from one manufacturer to another.

Samsung ML-2250 Toner Cartridges

Samsung Cart. # ML-2250D5, ML-2250DA
OEM Stated Yield: 5,000, 10,000 respectively

Like the ML-2150 most of these cartridges use a chip. The actual Samsung ML-2250 versions however does not, but all the rest do. The chips can sometimes be used another cycle, but to be safe it is best to replace them each cycle. There are different manufacturers using this engine. Each manufacturer has it's own separate chip. Reset boxes are available to reset the OEM as well as aftermarket chips. Some reset boxes will also allow the change from one manufacturer to another.

Samsung ML-3051 Toner Cartridges

Samsung Cart. # ML-D3050A, ML-D3050B
OEM Stated Yield: 4,000, 8,000 respectively

Like the ML-2150 these cartridges use a chip. The chips must be replaced each cycle. There are different manufacturers using this engine. Each manufacturer has it's own separate chip, even Samsung has different versions. Make sure you have the correct chip for the machine the cartridge will be going into. Reset boxes are available to reset the OEM as well as aftermarket chips. Some reset boxes will also allow the change from one manufacturer to another.

Samsung ML-3560 Toner Cartridges

Samsung Cart. # ML-D3560D6
OEM Stated Yield: 6,000

Like the ML-2150 most of these cartridges use a chip.. The chips must be replaced each cycle. There are different manufacturers using this engine. Each manufacturer has it's own separate chip, even Samsung has different versions. Make sure you have the correct chip for the machine the cartridge will be going into. Reset boxes are available to reset the OEM as well as aftermarket chips. Some reset boxes will also allow the change from one manufacturer to another.

Samsung SCX-6320Toner/OPC Cartridges

Samsung Cart. # SCX-6320D8 (Toner), SCX-6320R2 (Drum)
OEM Stated Yield: 8,000, 18,000 respectively

Both of these cartridges use different items to reset the printer. The toner cartridge uses a chip that must be replaced/reset each cycle. There are different manufacturers using this engine. Each manufacturer has it's own separate chip, even Samsung has different versions. Make sure you have the correct chip for the machine the cartridge will be going into. Reset boxes are available to reset the OEM as well as aftermarket chips. Some reset boxes will also allow the change from one manufacturer to another.

Drum Cartridge: This cartridge uses a fuse to reset the printer. The fuse is located on the gear side of the cartridge. Starter cartridges do not have a fuse, but the holder is there. The fuse must be replaced each cycle. The fuse is a 250V 5 x 20mm 63mA fuse. Make sure you have the correct fuse or printer damage may occur!

Samsung SF-830 Toner Cartridges

Samsung Cart. # SCX-5312D6
OEM Stated Yield: 7,500

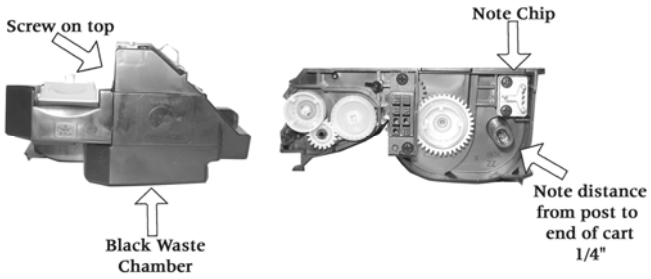
These cartridges do not use a chip or any type of reset. They are included here because they use a resistor to tell the machine what brand it is. Samsung cartridges have a 30k Ohm resistor, where Xerox cartridges have a 12k Ohm resistor. If you are getting an "Invalid Cartridge" message, the wrong resistor is installed. These resistors do not go bad, and should never need to be replaced unless you are changing brands. The resistors are under a small contact plate on the gear side of the cartridge

Sharp AL-1000/Xerox XD-100 Toner Cartridges

Sharp Cart. # AL-100TD, Xerox Cart. # 6R914
OEM Stated Yield: 6,000

The standard AL-100TD, and 6R914 cartridges are not interchangeable. They have Oblong tabs on the backside of the cartridges that are in different locations. These tabs block the use of one brand in the others machine. They can be made to be interchangeable by cutting off the tabs, and sealing up the hole. See our cartridge recycling instructions for detailed information. These cartridges also do not have any type of reset. There is a sensor inside the cartridge that measures the mixture of toner to developer. As long as there is enough toner for a good mixture level, the toner lamp will stay off. There are no page counters or "Killer Chips" for these cartridges.

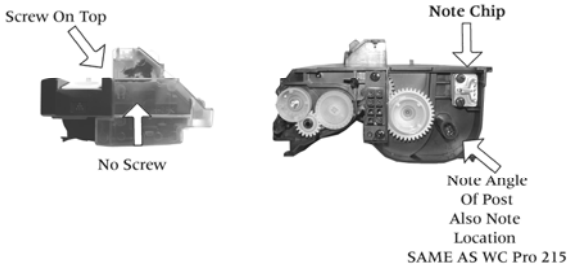
There are other versions of these cartridges however that do have "Killer Chips". The following are the current Sharp AL-1000 Engine based cartridges that also have the chips in them.



OEM Stated Yield: 6,000

These cartridges use the same supplies to recycle as the AL-1000 (XD-100) cartridges. The difference is that the oblong tab on the back side if the cartridge is placed differently, and the cartridge has a "killer chip" that shuts the machine down after 10,000

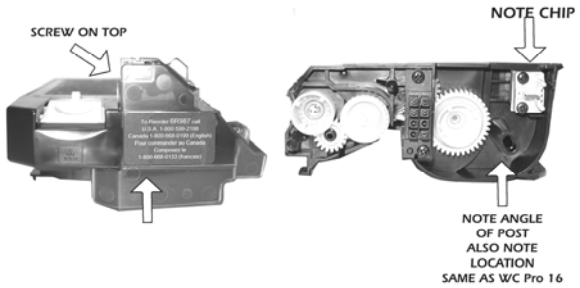
pages. These cartridges are designed to be recycled by Sharp authorized dealers. As such, replacement chips are available from authorized Sharp dealers, and now generic chips are also available. Since the chip shuts down the cartridge at 10,000 pages, you can recycle the cartridge 2-3 times with the same chip with out any problems. However, even if you just recycled the cartridge, once the page count reaches 10,000, you will need to replace the chip. To make matters even more confusing, it seems that non-network (Copier Only) machines do not need the chip installed at all! We think (but have not yet been able to confirm), that replacing the chip every cycle will prevent the machine from shutting down. That is an increase in cost, but that way you don't have to track the usage on your customer's machine, or for that matter, the type of machine they have. The chip is installed in the back of the connector on the cartridge.



Xerox WorkCentre Pro 16 Series Toner

Xerox Part # 6R972
OEM Stated Yield: 6,000
Starter cartridges do not have a chip installed.

The WorkCentre Pro 16 cartridges also use a chip, but in this case the chip does not seem to shut the machine down right away. This seems to work the same as the Sharp AR-150; it can be recycled 2-3 times before the chip shuts the cartridge down. Replacement chips for these cartridges are now available. These cartridges differ from the others in that the "Oblong Tab" on the back of the cartridge has it's own unique location. In addition to the tab, the Waste Chamber is also different. It has a different shape, and is held on by one screw at the top, and a plastic tab on the bottom. The chip is installed in the back of the connector on the cartridge.



Xerox WorkCentre Pro 215 Toner

Xerox Part # 6R988/6R987
OEM Stated Yield: 6,000

These cartridges have a "Single Use Killer Chip". Unlike the other chips in this series, this chip shuts down the cartridge after the first cycle so it will be necessary to replace it each time. Replacement chips for these cartridges are now available. These cartridges also differ in that the "Oblong Tab" on the back of the cartridge has it's own unique location. The chip is installed in the back of the connector on the cartridge.

Sharp AL-1000/Xerox XD-100 OPC Cartridges

Sharp Cart. # AL-100DR, Xerox cart. # 13R551
OEM Stated Yield: 18,000

Both of the above cartridges are different, and not interchangeable but the reset procedures are the same. (These procedures are the same for the XC-800/Z-835 copier OPC cartridges). These cartridges are the most popular. There are also other cartridges that use the same supplies, but are physically different. There are tabs on the top of the cartridge that block installation into another brand copier. These tabs are different for each cartridge type.

If the cartridge is not a "Starter cartridge", there are two white gears inside the green end cap. On the large white gear, remove the clip ring and turn the gear back to the start position. (This is so the

actuator (or flag) is next to the small gear). On some cartridges the "flag gear" is now black. It is located to the bottom right of the white gear. Make sure that when you snap the green end cap back on, the notch on the small gear lines up with the tab on the large single gear that is on the cartridge. Once everything lines up, snap the end cap in place. This is tricky, take your time!

To reset the starter cartridge, or any cartridge through the menu, do the following:

Enter the diagnostics menu by turning the machine on, and within 4 seconds, press "CLEAR", "EXPOSURE MODE", "CLEAR", "EXPOSURE MODE". (EXPOSURE MODE is the button on the far left). All of the display will go blank. Using the 10 and 1 buttons (copy quantity), enter "24" press "PRINT", enter "7" press "PRINT" again. The counter is now set to Zero!

Sharp AR-150 OPC

Sharp Cartridge Part # AR-150DR
OEM Stated Yield: 18,000

To reset the cartridge through the menu, do the following:
Enter the diagnostics menu by turning the machine on, and within 4 seconds, press "CLEAR", "EXPOSURE MODE", "CLEAR", "EXPOSURE MODE". (EXPOSURE MODE is the button on the far left). All of the display will go blank. Using the 10 and 1 buttons (copy quantity), enter "24" press "PRINT", enter "7" press "PRINT" again. The counter is now set to Zero!

Sharp AL-1641/55/61 OPC

Sharp Cartridge Part # Al-100DR
OEM Stated Yield: 18,000

These machines use the AL-110TD toner cartridge and have a different reset procedure then the normal AL-100DR machines use.
To reset the cartridge through the menu, do the following:

Enter the diagnostics menu by turning the machine on, and within 4 seconds, press "#" " *" "CLEAR" "*" All of the display will go blank. Using the 10 and 1 buttons (copy quantity), enter "24" press "PRINT", enter "7" press "PRINT" again. The counter is now set to Zero!

Xerox WorkCentre Pro 16 Series OPC

Xerox Part # 13R563
OEM Stated Yield: 18,000

The actual procedure for these machines is not currently known. It is highly probable that the same procedures used in the Sharp AL-1000/Xerox XD-100 will work but this is still being investigated. Look for updates on these machines on our web site www.summitechnologies.com

Xerox WorkCentre Pro 215 OPC

Xerox Part # 13R563
OEM Stated Yield: 18,000

The actual procedure for these machines is not currently known. It is highly probable that the same procedures used in the Sharp AL-1000/Xerox XD-100 will work but this is still being investigated. Look for updates on these machines on our web site www.summitechnologies.com

Sharp AR-152 Toner Cartridges

Sharp Cartridge Part # AR-152NT
OEM Stated Yield: 6,500

These cartridges have a "Single Use Killer Chip". This chip shuts down the cartridge after the first cycle so it will be necessary to replace it each time. Replacement chips for these cartridges are now available. The chip is installed in the back of the connector on the cartridge.

Sharp AR-152 Developer

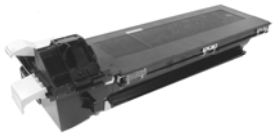
Sharp Cartridge Part # AR-152DV
OEM Stated Yield: 25,000

The developer is rated for 25,000 pages. The default setting on the machine is to keep running even after the 25K pages. That default setting can be set by the dealer to stop at 25K pages. It is considered a dealer option.

To clear the developer after a stop, or to reset the counter, simulation 24-06 must be run.

To enter the simulation mode, press the “CLEAR KEY”, EXPOSURE SELECT KEY”, “CLEAR KEY”, EXPOSURE SELECT KEY”.

Press 24
Press 06
Press “PRINT” The developer count is now cleared.



Sharp AR-152 OPC

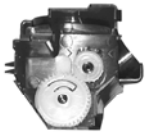
Sharp Cartridge Part # AR-152DR
OEM Stated Yield: 25,000

Inside the drum cover, there is a gear with a “Flag” on it. Remove the gear and place it so the flag is at the 12:00 position. This flag when the cartridge is installed, will turn down, and engage a switch in the machine. This tells the machine there is a new drum. If the drum unit has never been rebuilt, this flag gear is not there. It can be ordered from Sharp, but there is also a reset that can be done through the menu.

To clear the drum count if the flag gear is not present, simulation 24-07 must be run.

To enter the simulation mode, press the “CLEAR KEY”, EXPOSURE SELECT KEY”, “CLEAR KEY”, EXPOSURE SELECT KEY”.

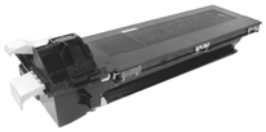
Press 24
Press 07
Press “PRINT” The drum count is now cleared.



Sharp AR-160 OPC

Sharp Cartridge Part # AR-200DR
OEM Stated Yield:

Inside the drum cover, there are two white gears. The larger gear has a white tab that must be placed at the 12:00 Position. The smaller gear has two small tabs that must also be place at 12:00.



Sharp AR-163

TONER

Sharp Cartridge Part # AR-201NT
OEM Stated Yield: 13,000

These cartridges have a “Single Use Killer Chip”. This chip shuts down the cartridge after the first cycle so it will be necessary to replace it each time. Replacement chips for these cartridges are now available. The chip is installed in the back of the connector on the cartridge.

Sharp AR-163 Developer

Sharp Cartridge Part # AR-201ND
OEM Stated Yield: 30,000

The developer is rated for 30,000 pages. The default setting on the machine is to keep running even after the 30K pages. That default setting can be set by the dealer to stop at 30K pages. It is considered a dealer option.

To enter the simulation mode, press the "CLEAR KEY", "INTERRUPT KEY", "0" KEY", "INTERRUPT KEY", "MAIN CODE" "START KEY", "SUB CODE" "START KEY",
"Main code" for clearing the developer = 42
"SUB CODE" for clearing the developer = 1
The developer count is now cleared.
To exit the simulation mode press the "CLEAR ALL KEY"
Turn the machine off and on.

Sharp AR-163 OPC

Sharp Cartridge Part # AR-201DR
OEM Stated Yield: 30,000

Inside the drum cover, there is a gear with a “Flag” on it. Remove the gear and place it so the flag is at the 12:00 position. This flag when the cartridge is installed, will turn down, and engage a switch in the machine. This tells the machine there is a new drum. If the drum unit has never been rebuilt, this flag gear is not there. It can be ordered from Sharp, but there is also a reset that can be done through the menu

To enter the simulation mode, press the "CLEAR KEY", "INTERRUPT KEY", "0" KEY", "INTERRUPT KEY", "MAIN CODE" "START KEY", "SUB CODE" "START KEY",

"Main code" for clearing the developer = 24
"SUB CODE" for clearing the developer = 7 The drum count is now cleared.
To exit the simulation mode press the "CLEAR ALL KEY" Turn the machine off and on.

Sharp AR-5015 Toner Cartridge

Sharp Cartridge Part # AR-016T
OEM Stated Yield: 16,000

The toner cartridges in these machines have a chip that must be replaced each cycle. The chip is located on the gear end of the cartridge. Replacement toner and chips are available.

Sharp AR-5316 Toner Cartridge

Sharp Cartridge Part # AR-016TD
OEM Stated Yield: 9,000

The toner cartridges in these machines have a chip that must be replaced each cycle. The chip is located in a pocket in the cartridge. It can be held in place by either 2 clips, 1 screw, or 2 screws. Replacement toner and chips are available.

Sharp JX-9200 OPC

The Sharp JX-9200 engine has many variations. The known reset procedures are listed by machine model #, and cartridge part #.

Sharp FO-26/28/29/AL-80

Sharp Part # FO-26DR/28DR/29DR/AL-80DR

OEM Stated Yield: 20,000 (All)

These cartridges do not use any reset procedures at all. According to the Sharp manual, they should be replaced when the copy quality deteriorates. No codes will show on the display to change the cartridge. **NOTE:** None of these cartridges are interchangeable, they all are slightly different.

Sharp AL-800
Sharp Part # AL-80DR
OEM Stated Yield: 20,000

Open the front cover, and turn the power on. While pressing and holding both the "Exposure mode" and the "Clear key", close the front cover. Continue to hold these keys for 5 seconds, until the drum light goes out.

Xerox XE60/80
Xerox Cartridge Part # 13R553
OEM Stated Yield: 18,000

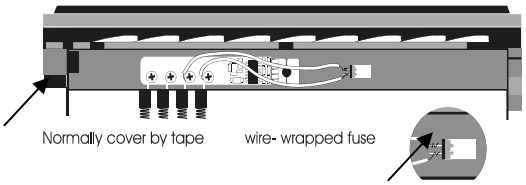
With the power on, open the front door. Hold the "Copy Contrast" button while closing the front door, continue holding the button down for 3 seconds, then release.

Sharp JX-9500 OPC/Toner
Sharp Cartridge Part # JX-95DR
OEM Stated Yield: 50,000 OPC, 25,000 Toner

There is a glass fuse located under a clip on the top of the cartridge. Replace the fuse each cycle. The fuse is a 250V, 80mA, 5x20mm fast acting glass type. The toner waste bottle also uses a fuse- a 250V, 50Ma 5x20mm fast acting glass type.

Sharp JX-9600 Toner Cartridge
Sharp Cartridge Part # JX-96ND
OEM Stated Yield: 15,000

This cartridge needs to have the fuse replaced each cycle. The replacement fuses are physically different from the OEM but work the same. The fuses for this cartridge are a special, very fast acting, type and must be ordered from your supplier. The replacement fuse must be inserted across the two screws as shown. We have found it best to use solid telephone wire and wire wrap around the fuse posts. Soldering wires to the fuse can cause the fuse to blow if too much heat is used.



Sharp JX-9600 OPC Cartridge

With the exception of starter cartridges, these cartridges have a small board located on the end of the cartridge. The small surface mount micro fuse (125mA) must be replaced each cycle. If you have a starter cartridge the machine must be reset through the menu. (Starter cartridges do not have a fuse board.) Almost all of the machines have a different, and complicated reset procedure. Two of the most popular machines are listed below. Other machines probably also have a similar type of reset procedure, but we have not been able to confirm them.

Sharp JX-9600
Sharp OPC Cartridge Part # JX96DR
OEM Stated Yield: 30,000

Turn the printer off.
With the MENU and ENTER keys depressed, turn the power on.

The display will read PCU DIAG MODE G.
Press the MENU key repeatedly until you see COUNTER SET.
Press the ENTER key once, and the MENU key twice.
The display will read DRM 05000.
Press and hold the DOWN ARROW key until the number resets to 00000.
Press the MENU key four times, the Display will read: DTRM XXXXX
Press and hold the DOWN ARROW key until the left three digits reset to zero (DTRM 000XX)
Press the ENTER key, the display should read COUNTER SET.
Insert a piece of paper into the manual feed slot on the front of the printer, and press the FORM FEED key. You will hear a beep.
Turn the printer off, and back on. The drum counters are reset!

Texas Instruments
MicroLaser Pro Series MicroLaser Pro 600/ProE/PowerPro/Pro-8/Pro-12
Texas Instruments OPC Cartridge Part # 4793576-0001
OEM Stated Yield: 30,000

1. Turn power off to the printer, then turn power back on while holding the up and select keys pressed. <PCU DIAG MODE C> will be displayed.
2. Press select until <NV RAM INITIAL> is displayed. Place a sheet of paper in manual feed slot and press form feed. Printer should beep.
3. Press the select key until <TEST PRINT> is displayed.
4. Press the up key once.
5. Press the previous key until <JAM OFF> is displayed.
6. Press the select key once.
7. Press the previous key until <HEATER OFF> is displayed.
8. Press the select key once.
9. Press the previous key until <MULTI OFF> is displayed.
10. Press the select key once.
11. Press the previous key until <TONER OFF> is displayed.
12. Press the up key once. <TEST PRINT> will be displayed.
13. Press the FORM FEED key. This will give the levels for the printer, heater, and toner.
Write down or remember the toner level reading. (Note that these readings will be displayed in LCD display window, not on the test print. The display will automatically go back to displaying <TEST PRINT>
14. Press the select key twice to display <COUNTER SET>
15. Press the up key twice to display <DEV XXXXX>.
16. Press the select key until <TNL xxx> is displayed. Press the next arrow key to enter the same number that was displayed in step 12.
17. Press the up key. <COUNTER SET> will be displayed.
18. Insert a sheet of paper into the manual feed slot. Press the FORM FEED key. The printer will beep.

Sharp SN-1420/1430 OPC
Sharp Cartridge # SN-142DR
OEM Stated Yield: 25,000

To reset the counter in the SN-1420/1430 OPC cartridges the connector on the rear of the cartridge must be replaced. New replacement chips are available with the housing. Unscrew the old connector and replace with the new. These drums are rated for 30,000 pages.

Sharp Z-20 OPC/Xerox 5305 Series
Sharp Cartridge # ZT-20DR/Xerox # 113R104/105
OEM Stated Yield: 20,000

Turn the power off. Hold down the exposure button, and turn the power on. All the lights except the ready light will come on. Release the exposure button. Press the exposure button again and hold for 10 seconds, until the three exposure lights come on. Release the exposure button. Once the ready light comes on the counter is reset. Turn the power off then back on to lock in the new settings.

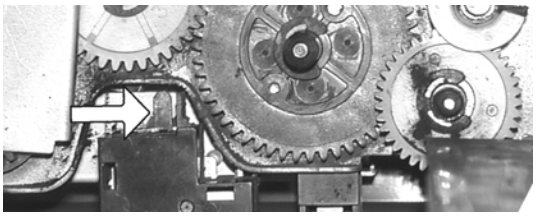
Sharp Z30 OPC/Xerox 5220/XC520 Series

Xerox # 20E18410, Sharp # ZT30DR

OEM Stated Yield: 20,000

NOTE: This procedure should be used by qualified technicians only! Placing the jumper wire in the wrong spot can damage the copier! This procedure should never be done with out rebuilding the drum unit/waste chamber first.

Turn the power off. Remove the front cover; the main board is now visible. Place a jumper wire across pins 2 & 3. (Located under the variable resistors). Turn the copier on for 5 seconds then off. Remove the jumper and close up the copier. The counter is reset.



Sharp Z50/Z70 OPC

Sharp # ZT50DR, Xerox 5008 (13R50), 5009 (13R55)

OEM Stated Yield: 10,000

Inside the copier on the back wall behind where the drum cartridge fits is a small black box. This box contains a mechanical counter with a lever that sticks out the top. Press the lever back and the counter is reset. (The lever doesn't move much). This can and should be done with the power off. The old style OPC cartridge came with a metal bar that you can set so that it protrudes from the cartridge. The bar would hit the lever and reset the counter. Newer cartridges have a small piece of black plastic that will hit the lever and be crushed in. These cartridges cannot be reset. You must manually reset the counter inside the copier.

Sharp Z-835/ Xerox XC-800 OPC Cartridges

Sharp OPC Part # ZT81DR , Xerox OPC Part # 13R544

OEM Stated Yield: 20,000

Both of the above cartridges are different, and not interchangeable but the reset procedures are the same. (These procedures are the same for the XD-100/AL-1000 copier OPC cartridges).
If the cartridge is not a "Starter cartridge", there is a small gear with a flag on it located on the gear side of the cartridge bottom right. Remove the gear and replace so that the flag is at the 1 O'clock position. If this gear is missing, the cartridge is a starter cartridge, and the following procedure must be used.

To reset the starter cartridge, or any cartridge through the menu, do the following:

Enter the diagnostics menu by turning the machine on, and within 4 seconds, press "CLEAR", "EXPOSURE MODE", "CLEAR", "EXPOSURE MODE". (EXPOSURE MODE is the button on the far left). All of the display will go blank. Using the 10 and 1 buttons (copy quantity), enter "24" press "PRINT", enter "7" press "PRINT" again. The counter is now set to Zero!

TEC LB-1305 OPC

OEM Stated Yield: 10,000 (All)

There are three major versions of these cartridges. Two use an external counter and one doesn't use one at all. The older style 1305 has no counter. The label on top of the cartridge has a place to write down the starting page count. You are supposed to keep track of the pages printed. The next version had a Black plastic counter. This counter has to be replaced every cycle. New counters are available as well as a reset service. The last version (actually the TEC-LB1321/1323) uses a Green plastic counter. This must also be replaced every cycle. No reset services are available for the green counters.

Tektronix Phaser 780 OPC

016-1864-00

OEM Stated Yield: 50,000 Black, 12,500 Color

These cartridges have a "Single Use ARD Chip". This chip shuts down the cartridge after the first cycle so it will be necessary to replace it each time. Replacement chips for these cartridges are available.

Toshiba A-739 OPC

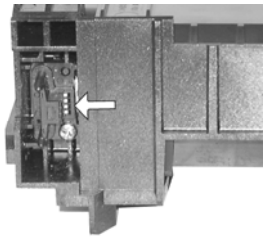
LS12TL200

OEM Stated Yield: 25,000

There is a small circuit board inside the OPC cartridge. The old fuse must be unsoldered and a new one installed each cycle. The fuse is a 125V, 2AG,1/8A glass type with axial leads for soldering.

Xerox Country Codes:

Xerox lists two to three digit codes for most of their cartridges. Most of the time the cartridges are identical, but the reset chips are programmed differently. The following list is not all the country codes, just the ones we have been able to confirm. US=USA, WH = Western Hemisphere, XCL = Xerox Limited (Canada), XL = England, RX = Rank Xerox. As we are able to confirm other country codes we will list them on our web site.



Xerox DC 212/214

Xerox Cartridge part # 113R180/113R181

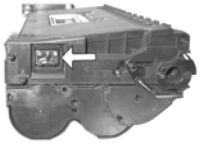
OEM Stated Yield: 14,000

To reset the counter in the DC 212/214 OPC cartridges the connector on the rear of the cartridge must be replaced. This will clear the J7 or J8 codes. J7= change copy cartridge, J8 = wrong or bad connector. There are many different cartridges that use different connectors for these machines.

If you are outside the US, and are not sure what type of connector to use, it is possible to find out by going into the machines diagnostics. To do this turn the machine off, press the "0" while turning the power on, press the Stop/Clear button. The lights will go off and "---" will show on the display. Wait 30 seconds for the optics self test to complete. Enter "202" and press print. If the display had a J8 code before starting, it will show two three-digit numbers in sequence. The first three-digit number shows the

type of replacement cartridge that the machine is expecting. 001=113R180/181, 005 = 113R287.

If the cartridges your machine needs is not available, you can change what type of cartridge the machine will accept by doing the following. Enter the diagnostics mode as in above. Enter “406 “ and press Print. Turn off the power and install the correct cartridge. The machine will now look for that type of cartridge from now on. Only do this if you are sure that you will be supplying the cartridges for this machine. If the customer goes out and purchases the “correct” cartridge that was made for his machine, it will no longer work until the above procedure is run again.

Xerox DC 220

Xerox Cartridge part # 113R120/113R178/113R276
OEM Stated Yield: 20,000

To reset the counter in the DC 220/230/240 OPC cartridges the connector on the rear of the cartridge must be replaced. This will clear the J1 or J7 codes. J1= Toner Out, J7 = Change cartridge

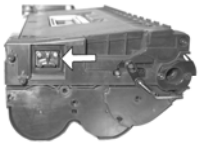
There are many different cartridges that use different connectors/chips for these machines. A list of them is as follows:

DC220/230/420 Type A: 113R120, 113R178, 113R276DC220/230/420 Type B: 113R179, 113R275
DC220/230/420 Type C: 113R313
DC332/340 Type A: 113R315, 113R317
DC332/340 Type B: 113R316

Each cartridge type is for a different machine. When ordering the replacement chip, make sure you know the correct cartridge part number that your customer’s machine calls for. The chips are not interchangeable.

Other cartridges error codes are:

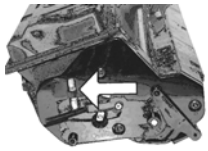
J6: Incorrect cartridge type
J3: Cartridge not seated properly, or not present

Xerox N-24/32/40

OEM Stated Yield: 20-23,000 (Depending on cartridge)

This engine has more non-interchangeable cartridges than any engine I have ever seen. All of them use an "ARD" that is built into the connector. Almost every type of cartridge has it's own individual ARD. Since every individual cartridge has it’s own chip, it is imperative that you have the OEM cartridge part number when ordering the chips! The reset boards are now available with the plastic housing so that soldering the chip in is no longer necessary. There are also services where you can have the old chip reset. There are still cartridges that do not have replacement chips available yet. These are mainly international, but not all.

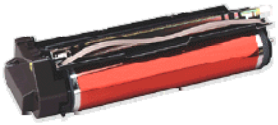
Xerox P8E (Samsung FS-5000 Engine)

OEM Stated Yield: 5,000 (Except for Lexmark 13T0101: 6,000)

There are 3 main versions of this cartridge so far. The Xerox Docuprint P8e 113R296/100R364, WorkCentre 385 113R 296, and the Lexmark Optra E310/312 NOTE: Lexmark has replaced the 12A2202 (5k) cartridge with the 13T0101 (6k) cartridge. The new cartridge works in both machines.

When recycling these cartridges the fuse must be replaced in the Xerox cartridges. The Lexmark cartridges have a plastic dummy fuse in it. There has been some conflicting information on if the fuse should be replaced or not, the following should help to clear it up. If the machine says toner low and the

cartridge is changed. A new fuse is not needed. However if the machine says change cartridge, the fuse is needed. Since you really have no way to know the state of your customer's machine, we recommend that the fuse be replaced each cycle. These fuses are very inexpensive, and this way you have no worries! Starter cartridges can come with plastic dummy fuses. Those fuses must be replaced with a real fuse. The fuse is a 125V, 100mA, 5x20mm fast acting glass type.

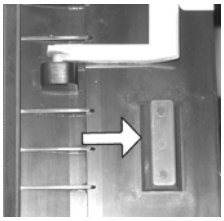


Xerox XC-23/33 OPC

13R546

OEM Stated Yield: 30,000

To reset the counter in the XC-23 OPC cartridges the connector on the rear of the cartridge must be replaced. This will clear the J7 or J8 codes. J7= change copy cartridge, J8 = wrong or bad connector. New replacement connectors are not currently available, but there are companies that can repair the OEM connector for you.



Xerox 1012 OPC

13R8, 113R92

OEM Stated Yield: 18,000

The 1012 OPC cartridges look very similar to the 5011 and 5012, but they are different and NOT interchangeable.

There are now many different Xerox part numbers for these cartridges. They are interchangeable, just sold from different sources. A list of some of them is as follows: 13R8 (US), 13R10, 13R30, 113R92 (Retail Stores), and 13R500.

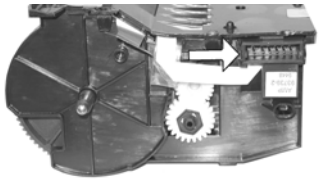
This cartridge uses an optical reset similar to the Panasonic 4410. The waste chamber must be spotless, and the float in the down position. There is a clear plastic bubble on top of the cartridge. This is what the sensor looks at and it must be spotless! The J7 code is triggered when the waste chamber fills up and moves the float into the bubble, interrupting the optical sensor.

Xerox 4525

113R00195 (Lexmark W820)

OEM Stated Yield: 30,000

To reset the counter in the 4525 and Lexmark W820 cartridges the connector on the rear of the cartridge must be replaced. This will clear the J1 or J7 codes. J1= Toner Out, J7 = Change cartridge. The connector and cartridges look similar to the N24 style, but they are different, and NOT interchangeable.



Xerox 5011 OPC

Xerox cartridge Part # 13R44

OEM Stated Yield: 18,000

The 5011 OPC cartridges look very similar to the1012 and 5012, but they are different and NOT interchangeable.

These cartridges use a reset fuse board located inside the connector. The connector must be un-soldered and a new one soldered in. Be very careful not to melt the cable when soldering. Make sure that you

use the correct connector. The 5012 will not work in the 5011 and vice-versa. To tell if you have the correct connector, read the resistance between pin's 3 & 6. 5011 connectors read 15,000 ohms while 5012 connectors read 1,500 ohm

Xerox 5012/5014 OPC

13R19
OEM Stated Yield: 18,000

The 5012 OPC cartridges look very similar to the 1012 and 5011, but they are different and NOT interchangeable.

There are now many different Xerox part numbers for these cartridges. They are interchangeable, just sold from different sources. They are 13R19 (US), 13R22, 13R24, 113R91 (retail), and 13R508. These cartridges use a reset fuse board located inside the connector. The connector must be un-soldered and a new one soldered in. Be very careful not to melt the cable when soldering. Make sure that you use the correct connector. The 5011 will not work in the 5012 and vice-versa. To tell if you have the correct connector, read the resistance between pin's 3 & 6. 5012 connectors read 1,500 ohms, while 5011 connectors read 15,000 ohms.

Xerox 5018 OPC

Xerox Cartridge Part # 13R9
OEM Stated Yield: 18-22,000 (Depends on Machine)

There are a variety of cartridges now available for these machines. They all use the same supplies. 13R9, 13R74(US), 113R161 (Retail) 113R93 (Missing Internal Counter), 13R13(RX), 13R18(XLA), 13R505 (XCL).

The **5334** cartridges appear similar but are different. They still use the same supplies to recycle, but they do not have a reset counter installed inside. They also have an extra tab on the back side of the cartridge that stops the cartridge from being installed completely in a 5018 machine. The cartridges used in these machines are the 13R67 (US), 13R68 (RX/XL), 13R69 (XLA), 13R520 (XCL). These machines are basically set up to "run for life" in other words, the drum cartridge is run until there is a problem. At that point another cartridge is installed, and the machine continues to print. There is no reset involved.

A code (J2) may show on the 5624, and 5824 machines, to clear it do the following: Enter the diagnostics by holding the "0" while turning on the machine. Enter "9", PRINT, "50", PRINT. This will start the machine up and clear the J2 code. Information on these machines is still a little vague as we are still in the learning process.

The 5018 OPC cartridge must be disassembled so that you have access to the mechanical counter. New OEM replacement belts are now available making any Xerox machine warranty issues hard to enforce.

Turn the cartridge so that the Counter is in front of you. On the left side of the counter, there are two white levers. While pressing both of the levers down, turn the large black gear backwards,(Clockwise). Stop when the green or knurled section of the gear is visible through the small hole in the cover. (You must loosely place the cover over the Waste Chamber; the hole is located under the J2 label. Once this gear is in position, release both of the levers. At this point you should not be able to turn the large black gear. If you can, press down both levers and turn the gear one or two more "clicks" until the gear is locked. The two White Levers should stay flat.

Xerox 5113 Series (5113, 5114, 5614)

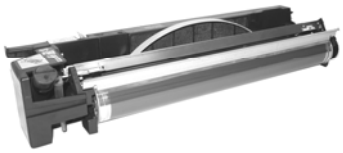
Xerox Cartridge Part # 113R79
OEM Stated Yield: 18,000

To reset the counter in the 5113 OPC cartridges the connector on the rear of the cartridge must be replaced. This will clear the J7 or J8 codes. J7= change copy cartridge, J8 = wrong or bad connector.

There are many different cartridges that use different connectors for these machines. A list of some of them is as follows: 113R79/113R80/113R85 (US), 113R86 (US connector works), for the 113R81/113R82 cartridges no connectors are available.

If you are outside the US, and are not sure what type of connector to use, it is possible to find out by going into the machines diagnostics. To do this turn the machine off, press the "0" while turning the power on. Enter "3" and press print, enter "3" again and press print. The display will show the installed cartridge type. 4=US, and Europe 5113/5114 7 = Europe 5614.

NOTE: Although the Sharp 2014/2114 cartridges appear similar, they are not. The Sharp cartridges do not have a counter (they are reset through the menu), and the gears are different.

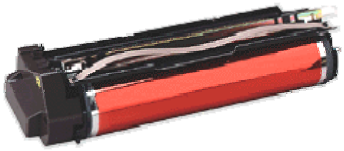


Xerox 5312/5313/5314

Xerox OPC Cartridge Part # 13R60, 13R62
OEM Stated Yield: 18,000

To reset the counter in the 5312/14 OPC cartridges the connector on the rear of the cartridge must be replaced. This will clear the J7 or J8 codes. J7= change copy cartridge, J8 = wrong or bad connector.

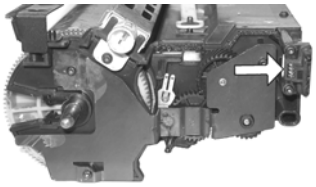
There are many different cartridges that use different connectors for these machines. A list of some of them is as follows: 13R62/62 (US), 13R61 US (5313 Only!), 13R65/13R66 (RX), 13R517 (XCL), 13R63 (XLA), 13R518 (XCL). It should be noted that the 5313 uses a different connector than the 5312/14 cartridges and that they are NOT interchangeable. If you are outside the US, and are not sure what type of connector to use, it is possible to find out by going into the machines diagnostics. To do this turn the machine off, press the "0" while turning the power on. Enter "31" and press print. The display will show 00,00,XX. The XX being the installed cartridge type. 17=US, 51 = 5313, 85 = Rank Xerox.



Xerox 5316/5317 OPC

Xerox Cartridge Part # 13R54

These cartridges have two small fuses that must be replaced each cycle. The old fuses must be un-soldered from the circuit board on the connector, and the new soldered in. Be very careful not to damage the board with too much heat.



Xerox 5318/5340

Xerox Cartridge Part # 13R75/13R56
OEM Stated Yield: 25,000

To reset the counter in the 5318 OPC cartridges the connector on the rear of the cartridge must be replaced. This will clear the J7 or J8 codes. J7= change copy cartridge, J8 = wrong or bad connector. There are different connectors used in the 5318 and 5340 cartridges. Most of the 5318 connectors have small fuses inside, while the 5340 uses an EEProm.

There are many different cartridges that use different connectors for these machines. A list of some of them is as follows: 13R75/56 (US), 13R516 (XCL), 13R57 (RX),

If you are outside the US, and are not sure what type of connector to use, it is possible to find out by going into the machines diagnostics. To do this turn the machine off, press the “0” while turning the power on. Enter “30” and press print, then enter 93 and press print again. The display will show the installed cartridge type. 1=US, 5 = Europe, 6 = Canada/Latin America.