

TECHNICAL DOCUMENT

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Xerox 5018, 5028, 5034 OPC Copier Cartridges

DOC-0221

OVERVIEW



These instructions cover the re-manufacturing of the Xerox 5018 OPC Copy Cartridge used in the Xerox 5018, 5028, and the 5034 copiers. The 5018 copier is rated at 18 copies per minute (cpm), and the 5028/5034 copiers are rated at 28 cpm. All three copiers can print on paper ranging in size from 5 1/2 x 8 1/2 " to 11 x 17" paper.

All of these copiers use the same copy (J2) cartridges. However, depending on the machine, the Copy Cartridges are used at two different page counts. In the 5018 copier, the J2 (Xerox part # 13R9) cartridge is used for 20k pages, and in the 5028, 5034 copiers the same J2 cartridge is used for 25k pages. Because of this difference in usage, the OPC Belts from copy cartridges used in the 5018 have a better chance to last through another cycle.

Once the copier display reads "Order Copy Cartridge" or the L2 code is displayed, there are approximately 2000 pages left before the copier will stop printing. After the cartridge has printed the last 2000 pages, the "Replace Copy Cartridge" and J2 will appear on the display, and the copier will not print until the copy cartridge is replaced.

Recycling the OPC cartridge using the original belt:

The original OPC belt may be good for one recharge cycle, however, there are many contributing factors as to why it may or may not.

A) The first and foremost factor is normal wear. The type of paper used, the age of the belt, and even which copier the cartridge came from all contribute to the belt wearing out. As stated above, in the 5018 copier, the OPC cartridge is used for 20,000 pages, and in the 5028, 5034 copiers the OPC cartridges are used for 25,000 pages. This makes OPC Belt cartridges from the 5018 copiers a much better candidate for recycling when re-using the same OPC Belt.

B) The second and equally important reason for premature belt failure is that the bottom of the OPC Belt cartridge leaves almost half of the OPC Belt completely exposed! Unless the customer immediately & properly stores the cartridge (in its protective cover and in the large foil bag), the chances of physical or light damage are very high. If you received the cartridge with the cartridge cover improperly attached or not attached at all, then there is probably some damage to the OPC Belt.

With all of the variables listed above, it is highly recommended that these cartridges be tested in a copier, both before and after the recharge process.

If even after testing, you are not 100% sure of the condition of the OPC Belt, or your customers reaction to an early failure, we strongly recommend that you replace the old OPC Belt with a new one. Remember, there is no way to certify that a used OPC Belt will last the full cycle.

The new replacement OPC Belt is rated by the manufacturer for one cycle, or 25,000 pages.

NOTE: These instructions should be read completely before proceeding with the recharge.

The purpose of this disassembly procedure is to vacuum out toner that will have spilled inside the cartridge during shipping and/or rough handling, to clean the debris cavity, and to clean the corona wire assembly, and replace the OPC Belt. This disassembly procedure should also be used to examine the internal parts of the cartridge for possible damage, or wear should the printing of the cartridge be poor and not correct able by any other means.

REQUIRED TOOLS



- Phillips head screw driver
- Common type screw driver
- Needle Nose Pliers
- Safety goggles
- Breathing mask
- Toner approved vacuum

WARNING: Always wear safety goggles and breathing mask when working with or around toner. Do not disperse the toner into the air. Use approved toner vacuums and filters at all times.

- Approved Vacuum systems:

Toner approved vacuum. The Atrix HCTV toner Vac, or the Atrix AAAOmegas Toner Vac. Some type of approved toner vacuuming system is important because toner consists of very fine particles that will pass right through a normal vacuum filter, and blow out the exhaust, creating a real

mess.

REQUIRED SUPPLIES



- Belt-5018 New replacement OPC Belt
- WB-5018 New Wiper Blade
- CT-1006 "Wood handle Cotton swabs
- TM-40 Toner Magnet cloths
- PW-96 Lint free synthetic cotton 4" x 4" pads
- FR-899% pure Isopropyl Alcohol
- CA-12 12oz. can of Clean Compressed Air
- DPP Drum Padding Powder (Zinc Sterate)

PREPARE WORK AREA



1. Before proceeding with the following procedure you should have a work area available with approximately 4' x 3' clear space. It should be covered with some disposable paper since toner will spill on this area. It is recommended that brown craft paper be used and taped to the work area. This will hold the paper in place when trying to vacuum toner from the paper.
2. A garbage can with a strong plastic liner should be adjacent to the work area to empty used toner. It should be at least 2' deep to prevent toner from clouding up and over the top of the bag during disposal.
3. Have a few rags available and some disposable paper towels. TM-40 Toner Magnets are perfect for this.
4. The work area should be capable of being ventilated, if by accident toner becomes dispersed into the air. An exhaust fan in one window is recommended for ventilation.

DISASSEMBLY



1. **NOTE:** If the OPC Belt is to be reused, the following two steps should be executed as quickly as possible, so as to minimize light exposure to the OPC Belt. For best results, this procedure should be performed using yellow incandescent or "Harvest Gold" fluorescent lighting.

Turn the cartridge so that the green handle strap is facing you and the exposed belt is on top with the gear to the left. There are four Phillips head

screws located on each side of the cartridge. Remove all eight screws, and place aside.

2. Carefully lift up the OPC Belt by the gear on the left and the axle on the right, being very careful not to scratch it. Vacuum any remaining toner and debris from the Belt, being very careful not to come into contact with the drum surface. Do not polish or wipe the belt with a dry cloth, since this may scratch it. Blow off any remaining dust using a can of CA-12 compressed clean air. Never use un-filtered compressed air for this as un-filtered air will have small dirt particles which blown at high speeds, will damage the belt.

CAUTION: When using the compressed air, be very careful not to tilt or shake the can while spraying, as the propellant may spray out of the can and possibly ruin the belt.

3. Place the OPC Belt drive assembly in a soft lint free cloth and then into a dark colored bag, or cover from bright light by some other suitable means. Again, do not rub or wipe the OPC belt with a dry cloth as this may scratch its surface. If there is any matter left on the belt that must be cleaned off, use 99% pure Isopropyl Alcohol (FR-8), and a soft lint free cotton pad (PW-96) to lightly wipe the belt surface. Always handle the OPC belt with the utmost caution, since if damaged it is very costly to replace.

CLEAN THE CORONA WIRE ASSEMBLY



Now that the OPC belt is properly stored you are left with the Corona wires (2), and the Waste Chamber. Carefully vacuum this area and clean both of the wires with 99% Pure Isopropyl Alcohol (FR-8) and a cotton swab.

NOTE: Do not use much pressure as these wires are extremely fragile, and cannot be replaced. Care must also be taken when handling the cartridge not to accidentally come in contact with the wires as they are completely exposed, and easily broken.

CLEANING THE WASTE CHAMBER



1. The rest of the cartridge houses the waste chamber and the counter. To remove the Waste Chamber cover, first pry loose the two tabs located below the green handle. With a common screwdriver, pry each tab out while lifting up the inner Waste Chamber cover. Once the front edge is loose, gently pry up along each side of the chamber until the cover is loose.
2. Carefully lift up the top cover and vacuum clean. Pay special attention to the Corona Wire Assembly, as it is now especially vulnerable to damage.

NOTE: Be very careful not to bend or otherwise damage the small thin recovery blade located next to the Wiper Blade. If this blade is bent down lower than the height of the wiper blade, toner will accumulate on top of the blade and spill into the copier. If the blade does get bent, it may be possible to carefully bend the blade up equal to or slightly higher than the Wiper Blade. Make sure that the edge of this blade is even across it's entire length.

3. Coat the wiper blade lightly with Zinc Sterate (DPP). If you are replacing the Wiper Blade, slide the old blade out of the slot and insert the new blade. Coat with the DPP.

NOTE: Before doing anything further, it is a good idea to draw a picture of the remaining section of the Waste Chamber. Be sure to include the positions of the Green Handle, the long piece of foam, the long white plastic piece, the counter, and the black counter actuator arm. Remove all the above pieces with the exception of the counter, and place aside. The counter actuator arm can be removed by pushing up and out from the bottom of the cartridge.

WARNING: The small black Counter Actuator Arm is easily lost. There are no replacements for this arm and if lost, the cartridge is useless!

4. Once all the loose pieces have been removed, dump out the toner, and vacuum clean.
5. Clean and replace all the internal parts in the Waste Chamber.

NOTE: Once the belt is removed it is possible that the gear axles may come loose. If this happens just press the keyed plastic pieces back into place. They have a tight fit, and should hold when replacing the belt.

RESET THE COUNTER



1. Turn the cartridge so that the Counter is in front of you.
2. 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.
3. 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 a one or two more “clicks” until the gear is locked. The two White Levers should stay flat.

Re-assemble the cartridge by reversing steps 3.1 to 5.3. Once the cartridge is assembled, make sure that the Counter Arm “snaps” back and you hear the counter function when pressed in.

If the OPC Belt is worn and needs to be replaced, use the following steps:

REPLACING THE OPC BELT



1. We strongly recommend that you have two people on hand when installing the new OPC Belt. These belts are very fragile, and using two people will help insure that the belt is not damaged during installation.

Place the belt drive unit in front of you with the gear on the right and to the front.

2. Remove the two small foam pieces located at the hinge point on the center of the cartridge.
3. Remove the Corona Grid. This grid will snap out by pushing in on the right side holder (White), and removing the grid. Make sure to push straight in on the white holder. This holder piece is spring loaded, and will shoot out if it is pressed in and down at the same time.
4. Flip the drive unit over so that the gear is on the right rear side. At the center hinge point there are two plastic tabs. Gently lift up on both of these tabs at the same time. This will release the belt tension and allow the drive frame to fold in half.
5. Remove the old OPC Belt.

Note that on the left hand side of the cartridge is a round clear plastic shaft inserted from the side. This is called the “Light Lens”, and must be clean. On the old belt you will see a small square slot cut on one edge of the belt. When replacing the new belt, make sure that this slot is on the same side as the Light Lens, or the belt will never be synchronized.

6. Install the new OPC Belt. At this point we recommend you have two people. Have one person hold the drive unit so that it is folded almost in half. The other person should grasp the belt by the inside and carefully slide it over the drive unit, and into place. To Prevent belt damage, be very careful not to let the belt catch on any parts of the cartridge. With one person on each end of the drive unit, and while keeping the belt centered, carefully straighten out the frame until it clicks into place. Do not lay the drive unit down on any surface or permanent physical damage may occur to the new OPC Belt.

7. We recommend using two people for the following reasons:

- A. This is a very large cartridge and is not easy to manipulate, one slip and the new OPC Belt will be damaged.
- B. Two people will make it alot easier to put the new belt on with out getting it caught on the cartridge.
- C. Once the new belt is installed on the drive unit, the cartridge should not be set down on any surface until you are ready to place it in the cartridge. Anything that comes into contact with the belt can cause permanent damage.

8. Clean any toner off the Corona Grid, and replace. Do not use alcohol to clean this as it will remove the black coating on the grid. Instead, use a soft clean dry cloth and be sure not to leave any lint behind!
9. Replace the two small pieces of foam at the center points, and place the drive unit back into the rest of the cartridge and insert all eight screws.

If you are not going to test the cartridge, place the cartridge into its plastic cover, and into a light proof foil bag.

TROUBLE SHOOTING



1. Marks on the Page: These belt cartridges turn 1/2 a full rotation for every page. This means that a mark on the belt will show up every other page. If there are similar marks on every page, check the copier to see if it is clean.
2. Prints too Dark: This series of copiers has an internal automatic intensity adjustment. As a belt gets older it has a tendency to print lighter, causing the user to turn the manual intensity up. The copier will sense this at each start-up, and will automatically adjust the internal intensity so that the user still has full manual adjustment. When installing a new belt it may be necessary to lower the internal intensity.

To set the copier's internal intensity lower, do the following.

- Turn the manual intensity up to the lightest setting, and turn the copier off.
- Wait 15 seconds, turn the copier back on, and make a copy.

Continue this process until a good copy can be made with the manual intensity set in the middle.

CARTRIDGE INSTALLATION



1. Remove the paper tray, open the copier door.
2. Disengage the J2 Developer Module by swinging the J2 handle to the unlatched position (Down).
3. Remove the Developer Module and place on a sheet of paper.
4. Remove the Copy Cartridge from the copier by pulling the Green Handle towards you.
5. Carefully remove the Recycled Copy Cartridge from the box, and foil bag.
***** DO NOT separate the Copy Cartridge from the protective tray yet.**
6. Place the Recycled Copy Cartridge with its tray on the copier door so that the arrows point toward the copier.
***** Make sure that the locating tabs are against the edge.**
7. Place your finger tips on the Green area, and push the Cartridge in until it stops.
8. Remove the protective tray.
9. Place the Developer Module on the copier door, making sure that the J2 handle is fully down.
10. Push the Developer Module straight in until it stops.

11. Swing the J2 Handle up to latch the Module into place.
12. Close the Copier door, and replace the paper tray.
13. Place the spent Copy Cartridge into the foil bag, and into the box.

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