

Xerox C123, C118 WC-5225 & Phaser 5500 styles – Toner Cartridge Refilling... Refilling Information for Xerox CopyCentre C118, C123/C128/C133, & WorkCentre M118/M118i, M123/M128/M133, Pro123/Pro128/Pro133, WC5220/5222/5230, WC5325/5330/5335, Also Phaser 5500 & 5550.



Finally, and after quite a long wait, the RF (Radio Frequency) Connector CRUMs (Customer Replaceable Unit Monitors) for the C123 style machines and their cohorts have shown up on the reconditioning scene. You'll like these cartridges... they're really easy to refill, and it's just as easy to turn a profit working on them. Even after the cost of the Connector CRUM and toner material, there's room for making some decent money while still saving your customer some bread. All while doing the right thing by the environment by keeping these things in circulation. In this month's article, we'll learn about the various cartridge types; similarities and differences, and then we'll run through the refilling procedure.

There are a number of different toner cartridge reorder numbers in this whole group. Let's start with the mini version. The C118, M118, M118i machines use a scaled down version compared to the other models. These are sold under the part number 6R1179. They have a stated yield of 11K pages (at 5% coverage). OEM cartridges sell for \$75.-. Each contains 305g of toner according to the net weight printed on the OEM box.



The rest of the cartridges in the family are larger than the C118 version (same proportions roughly but bigger dimensions). The larger cartridges come with 680g according to the OEM packaging and have a stated yield of 30K (at 5% coverage). The C123/128/133, M123/128/133, Pro123/128/133 models have a few versions of the cartridge depending on the "Market Region" and "Plan" the machines are set-up for. In all Market Regions, the machines start out life using the 'Metered Plan' version of the cartridge (for machines under OEM Service Maintenance Agreements): 6R1182. If the machine is properly taken off of the maintenance agreement, it will be converted to the 'Sold Plan', thereafter rejecting the 6R1182 cartridges.

For the 'Sold Plan', the correct cartridge to use will depend on the "Market Region" the machine was configured for. According to the Service Manual, in the U.S., the 'Sold Plan' machines can use either 6R1182 or 6R1184 (if machine is set to the 'Sold Plan', the machine will reject the 6R1182). Machines under the 'Sold Plan' which are in the "DMO-E" market (Developing Market Operations – East), will need to stick to the 6R1183. Finally there is the "DMO-W" market (Developing Market Operations – West)... the Sold Plan machines there will require 6R1184. Cartridges from the wrong region or plan will be rejected by the machine. The exception is that the machines which are set to the "metered plan" in the U.S. will accept either the 6R1182 or 6R1184 versions of the ctg / CRUM.



Now... there is are newer versions of the C123 style.... The WorkCentre 5222 / 5225 / 5230 models which came out more recently and then the WC-5325 / 5330 / 5335. The model 5222 may sound familiar... In the 1990's, there was a tiny analog copier named with that same number (but without the "WorkCentre" in front of the number), but there is no relation. The WC5222 etc, appear to have the same type of cartridge physically as the C123, but they once again have a different part number. These new comers use 106R1306 which sells for around \$170.-. They have the same yield and they use same type of toner material. The new cartridge types have their own versions of the Connector CRUM chips.

The other cartridge which shares the same dimensions as the C123, is used in the monochrome printer: Phaser 5500. The 5500 uses the part number 113R668 for the toner cartridge. The toner has the same yield as the C123 (30K). A side by side comparison shows that the cartridge will be physically interchangeable with the C123, as long as you put the right Connector CRUM on the side of the cartridge. This one sells new for around \$120.-. There's also a newer Phaser in this series. The Phaser 5550 uses the toner cartridge 106R1294. This kind also sells for around \$120.- but it shows a stated yield of 35K (up 5K from all of the others in the series).

Toner Cartridge versions:

Reorder #	Stated Yield	Retail Price	Model#’s
6R1179	11K	\$75.-	C118, M118, M118i
6R1184	30K	\$182.-	C123/128/133, M123/128/133, & WC Pro123/128/133 (U.S. ‘Sold Plan’ version)
6R1182	30K	?	C123/128/133, M123/128/133, & WC Pro123/128/133 (Worldwide ‘Metered Plan’ version)
113R1306	30K	\$172.-	WC5222/5225/5230 (U.S. ‘Sold Plan’ version)
113R00668	30K	\$122.-	Phaser 5500
106R1294	35K	\$121.-	Phaser 5550
6R1159	30K	\$202.-	WC-5325/5330/5335 (U.S. ‘Sold Plan’ version)

As mentioned, most of these cartridges use a Radio Frequency (RF) CRUM which keeps track of the toner count and the toner cartridge type for the machine. This is a relatively new technology which uses an RF (Radio Frequency) emitter board in the machine to bounce radio waves against the machine’s CRUM, which is situated along the right side of the cartridge. The exception is that the newer WC-5325 version uses a non-RF chip which has metal contacts which get touched by contacts in the machine.

Now let’s get into the procedure.

Refilling Procedure:

1. Remove the front end cap from the cartridge. To do this, you will use a tiny flat-head screwdriver. Slide the blade of the driver into one of the 4 slots in the front of the cartridge and pry lightly while pulling gently on the front cover to release a little hook inside there. For the two top holes, you'll want to pry upward, while the two lower holes you will instead pry downward to release the front cover.
2. Make certain that the shutter found on the lower rear end of the cartridge is firmly in place (it has a magnetic closing surface which really helps in keeping toner from leaving the cartridge until the cartridge is properly installed in the machine. Then you can turn the cartridge so that its front end faces up, and remove the large toner-fill-hole's plug. Pour the toner in using a funnel. Don't overfill the cartridge... leave a little bit of head space so that the stirring paddle doesn't get all stressed out.
3. Put the toner cap back on and then pop the front end cap into place.
4. Finally, replace the Connector CRUM (Customer Replaceable Unit Monitor) with the right kind for your particular machine. It is located on the right side of the cartridge (see Photos 3 & 4). You'll need to release two clips. You can use your finger nails (if you have any) or a tiny flat head screwdriver. Be very gentle so the little hooks don't get broken. This will allow the Connector to slide down and off. The replacement Connector will look a little different from the OEM one. Also, the newer 5325 version is located near the front end of the cartridge (see Photo #4).. Basically the most important thing is that the larger raised components on the replacement CRUM face inward so they won't get damaged by the mounting slot.

That is it ! Easy as pie.



Photo #1: Removing Front End Cover



Photo # 2: The Toner-Fill Hole



Photo # 3: Removing the Connector
(C123, 5225 or Phaser 5500 versions)



Photo #4: WC-5325 Toner CRUM location.