

CC35 style XEROGRAPHIC MODULES...

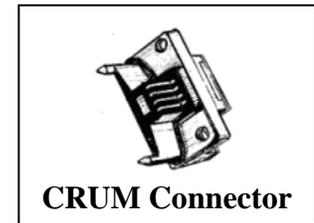
Xerox models (Copy Centre)C35, C45, C55, (WorkCentre Pro)WCP35, WCP45, WCP55, (Document Centre) DC535, DC545, DC555 ... How to service the Xerographic / Drum Cartridges.

This series is really gaining some momentum. Xerox initially released 9 models and the newest Specification Guides are showing at least that many more machines which all appear to be along the same line. Back in October and November of 2005, we covered these machines in a pair of articles which ran through the Status Codes, Diagnostic Tests and Memory Settings. This month, we'll take a good look at the Drum Cartridge or the "Xerographic Module" as the OEM chooses to refer to it in the Service Manual.



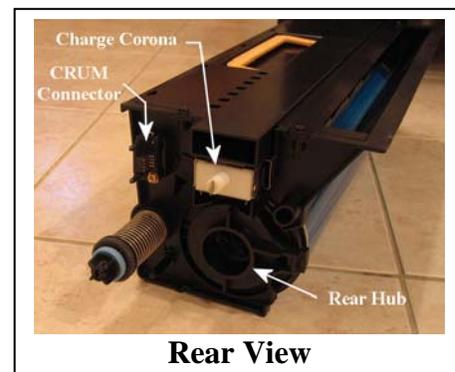
The Xerographic Module is designed to have an estimated yield of 100K... this means the drum itself must be made of some pretty good stuff. You'll want to be prepared to service the unit to repair drum cleaning problems and other issues which may arise during the life of the cartridge. Think of the Xerographic Module as just another part of the machine which requires regular service and you won't miss out on that part of the action. A new Xerographic Module has a price tag in excess of \$400.- from Xerox, so there is plenty of room to turn a tidy profit and still save your customer some money.

The cartridges are offered under the reorder number 113R00608 for machines which are under the "Metered" plan, or 113R00610 for machines which are under the "Sold" plan. They come with a Transfer / Detack Corona Assembly as well. The machines which are still set up for the "Metered" plan are ones which were sold with a Field Service Maintenance Agreement (FSMA)... the cartridges are included with the deal while they are under that maintenance agreement. The first time that a "Sold" version of the Drum Cartridge is installed in a "metered" plan machine, the machine changes to the "Sold" plan and will need to get the 113R00610 'Sold' version of the cartridge from then on or else the Status Code "09-399" "Incompatible Xerographic Module" will show up. That Status Code will also appear if you try to install a cartridge from a different market. For example a European cartridge (113R00607) would result in the same Status Code. The key to all of these market differences is held in the small Connector on the rear of the cartridge... the "CRUM" (Customer Replaceable Unit Monitor)



which is programmed differently for each market. Those Connectors will likely be available in the near future from aftermarket sources... they will be needed to reset the drum count on the machine.

Now to it... let's see how this thing comes apart. It's pretty straight forward with the exception of the Drum Hub removal... I had to break one to figure out the right way to remove them without breaking them. I think a smarter, or maybe a more patient tech might figure it out (without breaking stuff), but hopefully this write up will



help you understand it, without all the head scratching being necessary.

1.) You'll want to remove the Top Cover first (4 screws from the top) then clean out whatever waste toner is easily reached from there.

2.) Next lay the unit on its Right Side... the drum will not be in danger of touching your work surface if the cartridge is in this position so you'll want to keep it sitting like this for most of the balance of this procedure. Remove the Front Cover (1 screw from the front near the bottom... 5.5mm nut driver)

3.) Take notice of where the spring for the Stripper Finger Bracket attaches. Slide the Finger Bracket forward until the rear pin comes clear of the rear frame and remove the Finger Bracket and its spring. You will want to take care not to scratch the drum's surface with the fingers (it might be wise to slide a piece of paper between the fingers and the drum before you slide the finger Bracket over).

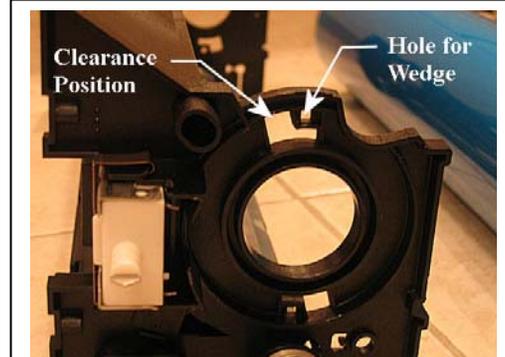
4.) Here's the tricky part... the Drum Hubs. We'll start with the Rear Hub. Get a pair of pliers and get a firm grip on the rear hub and rotate the hub about 1/4" counterclockwise... it will resist and then suddenly "pop" into its new position. Then it can be extracted. The hubs each have a pair of hooks with wedge shaped tips (one at the top, one at the bottom). The hooks prevent the hubs from being able to slide out unless they are turned to the removal position where



Drum Hub



Rear Drum Hub Removal
(shown with hub in removal position)



**Drum Hub Clearance /
Removal Position**

there is clearance for the hooks. The wedge shapes at the tips of the hooks are indexed into a hole in the cartridge's frame such that you need substantial force to rotate the hub into the removal position. ... Again I broke one trying to figure this out. The Front Hub works much the same way (except that you rotate the hub clockwise). When you remove the second hub, make sure the drum doesn't drop out on you as it is only lightly retained when the hubs are out. The drum will now be removable from its cradle.



Cleaning Blade and Recovery

5.) The Cleaning Blade can be removed now (2 screws ... 5.5 mm Nut Driver needed). Be very gentle with the mylar seal blade below the cleaning blade... if it gets damaged, the cartridge will likely drop sprinkles of toner into the paper path when you reinstall it.

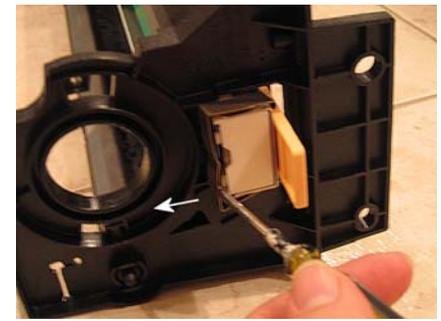
6.) To remove the Charge Corona Assembly, pry the indented portion of the spring metal holding clips (one on the front end, and one on the rear) till you can slide the clip out away from the cartridge's frame to release the Corona Assembly.

7.) Clean everything up really good... Reassemble the unit... pay attention to the position of the large toothed mylar piece attached to the top cover... its teeth need to slide all the way down into the waste toner auger (it prevents the auger from clogging up). It is possible to position it against the drum instead which would be bad news.

That's it! You did it.

Happy Xerographic Module Repairs to you in the New Year! I think you'll be seeing lots of this series of machines, so get in the learning curve as the opportunity comes up... it looks promising!

Britt works for The Parts Drop, a company which provides the industry with parts, supplies and information for Xerox brand copiers, printers and fax machines. You can find more information on their website www.partsdrop.com. There's a complete listing of past articles under contributing writers on the ENX website (www.ENXMAG.com) if you'd like to read more about Xerox brand office equipment.



Corona Removal...
Pry the metal clip to release it.