

C32 style & Phaser 7700 style

13R579 - (CopyCentre) C32, C40... (WorkCentre) M24, M32, M40, Pro32, Pro40
(DocuColor)DC1632, DC2240, DC3535

13R588 - (WorkCentre / WorkCentre Pro) C2128, C2636, C3545

13R624 - (WorkCentre / WorkCentre Pro) 7228, 7235, 7245, 7328, 7335, 7345, 7346

016-1886-00 - Phaser 7700, **108R00581** - Phaser 7750, **108R00713** - Phaser 7760

Drum Cartridge Reconditioning Instructions

These Drum Cartridges (also called “print cartridges”, or “copy cartridges”) are easy to rebuild once you have the technique down. This instructional should help you avoid the learning-curve pitfalls.

In particular, pay attention to the following three pieces of information:

1. If you pry in the wrong place, it’s easy to break the Drum’s Bearing Cradles... There is a good way to remove these without breaking anything...(read below)
2. There is a simple trick to remove the Charge Roller Assembly... (read below)
3. And... there is good info on a way to remove the used Drum Bearings without damaging them (read below again!)

These machines use 4 of these Drum Cartridges... one for each color (Black, Cyan, Magenta, & Yellow)... they use the same reorder number for all 4 positions. The reorder number to use depends on which machine you’re dealing with. All except the Phaser 7700 have interchangeable parts with the exception of the Drum Reset Connector CRUMs.

Below is the list of Drum Ctg reorder numbers and their associated models:

13R579 - (CopyCentre) C32, C40, (WorkCentre) M24, M32, M40, Pro32, Pro40, (DocuColor)DC1632, DC2240, DC3535

13R588 - (WorkCentre / WorkCentre Pro) C2128, C2636, C3545

13R624 - (WorkCentre / WorkCentre Pro) 7228, 7235, 7245, 7328, 7335, 7345, 7346

016-1886-00 - Phaser 7700

108R00581 - Phaser 7750

108R00713 - Phaser 7760

The cartridge comes in a plastic housing which serves only as an installation tool or Holder...Photo #1 shows what the cartridge looks like in its plastic housing.

Photo #2 shows what the Drum Cartridge looks like naked! Without the holder that is... These cartridges have a drum which rides in metal bearings... the bearings appear to be the place where the drum ground return is made. Then there is a Charge Roller (PD Part# = C32CR) with an adjacent cleaning pad riding on it. There’s a Drum Cleaning Blade (PD Part# = C32DB (or 7700DB for Phaser 7700 only)) which has a mylar piece glued onto it which forms a row of teeth. These teeth are designed to keep the waste auger located behind the blade from getting clogged. Near the front of the



Photo #1: Cartridge in its “Holder”

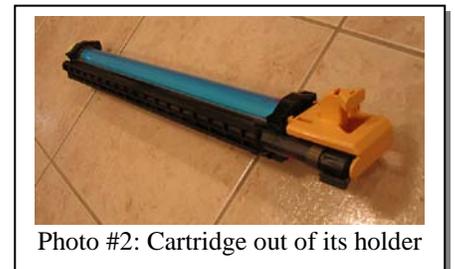


Photo #2: Cartridge out of its holder

cartridge, nestled under the yellow Front End Cap you'll find familiar looking Connector (or CRUM as Xerox likes to call it) which will need to be replaced when the cartridge times-out or if the cartridge is serviced (see Photo #4). Our part numbers for the Connectors are as follows:
for 13R579 use C32CN, ... for 13R588 use C2128CN, ... for 13R624 use 7328CN,
for 011-1886-00 use 7700CN, ... for 108R00581 use 7750CN, ... for 108R00713 use 7760CN

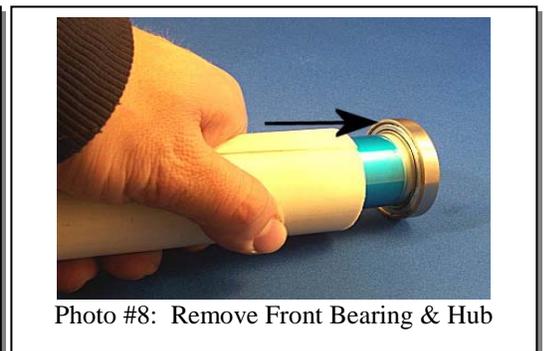
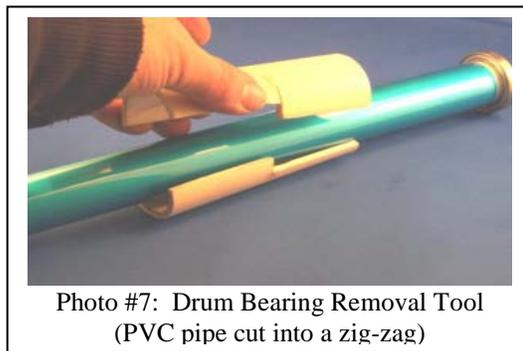
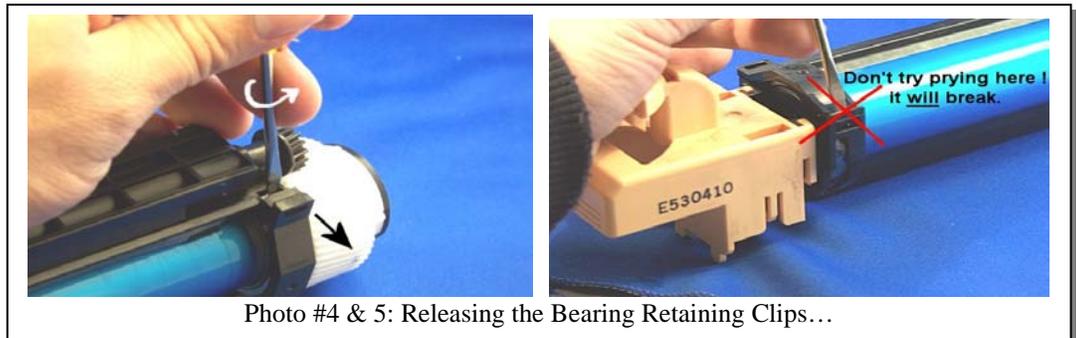
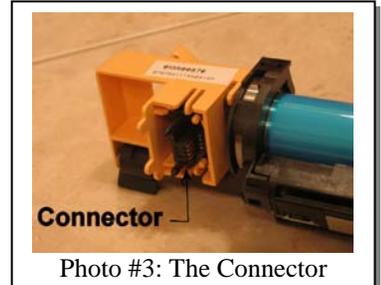
PROCEDURE:

1.) Remove the Drum Reset Connector CRUM from under the front end cap (see Photo #3). It is clipped in from the sides. If the Drum Count is up, it'll be necessary to replace this Connector with a new one. Note that often, if the drum looks like it's still in good shape, you can get a second life (or a good part of one) by simply replacing this Connector CRUM. Make sure the new CRUM is seated all the way so that the two clips from the sides hook onto it nicely... otherwise it will fall out when someone goes to remove the cartridge from the machine later.

2.) Remove the Drum Assembly...
WARNING... this is the part where

something can be easily broken if you pry in the wrong place... You will want to release the clips from the front and rear bearing retainers and remove the retainers. See Photo #4 for the safe place to release them by twisting the blade of a flathead screwdriver (see #5 for where NOT to pry). Then the Drum Assembly can be lifted out of the cartridge's frame. The Drum Assembly is the Drum with its bearings and the large white gear at the end (see Photo #5). When you reassemble things later, you will place one of the Bearing Retainer's hooks in place like a hinge and then close firmly until the other hook clicks for you.

3.) Removing the Drum Bearings from the old drum:
While we plan to soon offer a Drum Assembly which is fully assembled including the bearings, right now



our pd Brand of drum (C32DR) comes as a kit; with the drum cylinder (w/ inserts), hubs and gear. For this you will need to recover your used Drum Bearings to use on the new assembly (the bearings go on before the hubs or gear can be installed). Following is a good way to get them off without damaging them. Kurt came up with a simple tool which is made up of a short piece of PVC pipe which is split in half in a zig-zag so that the two halves will lock together when you place them around the drum (see Photo #7)...

This pipe tool can be slid down against the bearing on the front end (the end opposite the gear) repeatedly until the hub and bearing pop off. Then with the hub off, you can slide a solid shaft inside the drum to bang the gear off of the



Photo #9: Use a shaft to knock the gear end off.



Photo #'s 10, 11 & 12: Assembling the hubs and gear.

other end. This method takes off the bearings without damaging them. Remember to put the bearings on the drum before you tap the new hubs into the new drum cylinder. When you tap the new inner hubs in (the same type is used on either side), use a rubber mallet, being careful not to drive them in too far... there are two indexing nubs which should go in till they contact the edge of the drum cylinder (see Photo #10). With the inner hubs in place, you simply snap the other pieces in place. See Photo #11 for the Front Hub and Photo #12 for the Gear and its hub.

3.) Remove the Charge Roller Assembly... I found this to be a little tricky to figure out... however, it turns out there is an easy way. Refer to Photo #13 & 14: brace the cartridge frame with your index finger and push up with your thumb. Repeat with a similar action on the front end. The Charge Roller itself will fall easily out of the assembly at this point so take care... Don't touch the Charge Roll's surface as finger prints can cause print defects. If the Charge Roll doesn't have any grooves on its surface, you can sink-wash it with soap and water... just make sure to dry it thoroughly before using it again. If it is worn, replace it (C32CR)

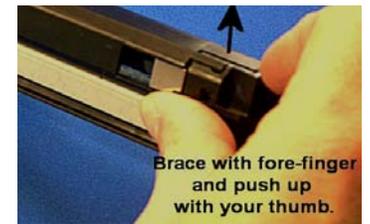


Photo #s 13 & 14: Removing the Charge Roll Assembly

4.) With the Charge Roll Assembly off of the cartridge, you can now access the two screws which hold the Cleaning Blade in place. Take a careful note of exactly how the blade is seated before you remove the screws as there is some room for it to move around... you might consider marking the position of the blade first. Photo #15 shows the blade with its mylar saw toothed piece attached.



Photo #15: Drum Blade shown with the Saw Toothed mylar piece.

That's all there is to it. Happy Cartridge Repairs!