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10kg Bags



Bulk Barrels



Chip Solutions



OPC Drums



AQC Group UK Ltd.
The Toner Manufacturing Company

Remanufacturing the Konica Minolta 1600W/1650EN

Konica Minolta Magicolor 1600W Printer Specifications

- * A4 Colour Laser Printer
- * Up to 20ppm Mono, 5ppm Colour
- * First page out in less than 11 secs (Mono)
- * Up to 1,200 x 600 dpi resolution
- * 16MB Memory
- * USB 2.0
- * Print on paper weights up to 209gsm
- * 200 sheet multi manual tray
- * 100 sheet face-down output tray

Konica Minolta magicolor 1650EN Specifications

- * A4 Colour Laser Printer
- * Up to 20ppm Mono, 5ppm Colour
- * First page out in 13 secs (Mono)
- * 600 dpi x 600 dpi x 4 PhotoART 9600
- * 256MB Memory
- * 400MHz Processor
- * USB 2.0 & network
- * 200 sheet multi manual tray
- * 100 sheet face-down output tray
- * Optional 500 sheet lower paper feeder
- * PCL 5c/e, PCL 6 (XL 2.1), HPGL/2, PostScript 3



Cartridge Types

Magicolor 1600W/1650EN High Capacity Black Toner (2,500 pages*) A0V301H

Magicolor 1600W/1650EN High Capacity Cyan Toner (2,500 pages*) A0V30HH

Magicolor 1600W/1650EN High Capacity Magenta Toner (2,500 pages*) A0V30CH

Magicolor 1600W/1650EN High Capacity Yellow Toner (2,500 pages*) A0V306H

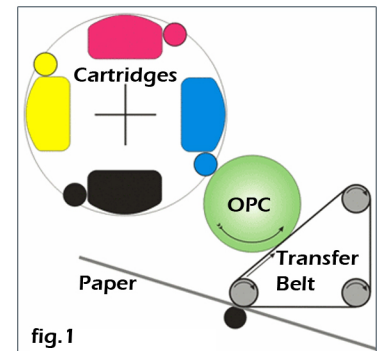
Magicolor 1600W/1650EN Standard Capacity Cyan Toner (1,500 pages*) A0V30GH

Magicolor 1600W/1650EN Standard Capacity Magenta Toner (1,500 pages*) A0V30AH

Magicolor 1600W/1650EN Standard Capacity Yellow Toner (1,500 pages*) A0V305H

Magicolor 1600W/1650EN Imaging Unit (40,000 pages*) A0VU0Y1

Magicolor 1600W/1650EN Fuser Unit A12J021f.



The 4 Pass Carousel Print System(see fig.1)

In 4-pass, the print image travels through four successive passes (one per colour). 4-pass reduces the cost of the printer since there is only one OPC drum for all the toner cartridges, whereas with 1-pass, there has to be one OPC drum per toner, but of course printing times for colour are at least four times as long. That's why for 4-pass colour laser printers manufacturers show two distinct printing times - one for monochrome and one for colour.

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Unit 22 Caker Stream Rd.

Mill Lane ind. ets.

Alton Gu34 2QA

PHONE: +44 (0) 1420 544455

FAX: +44 (0) 1420 542464

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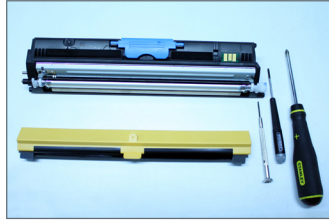


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Tools required:

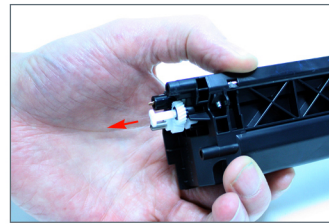
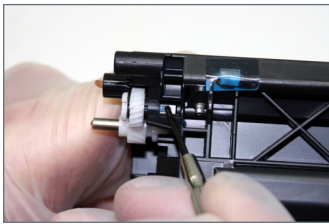
- * Phillips Screwdriver x 2
- * Small Flat blade Screwdriver x 1
- * Vacuum
- * Compressed air system (Optional)



Step one

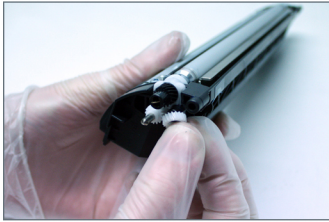
The first task is to remove the DVR, to do this we will need to remove some small plastic pins.

The first pin we will remove is located on the non chip side of the cartridge. We will use a small blade screw driver or similar device to push in towards the cartridges which releases a small lock on the side of the plastic pin this allows us to lift out the pin.



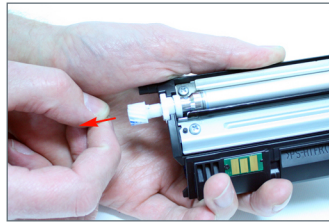
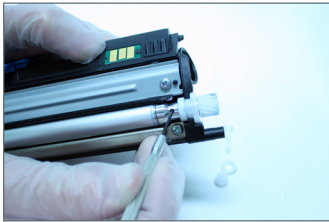
Step two

Two gears can now be removed



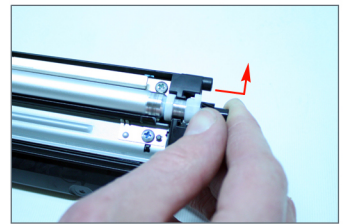
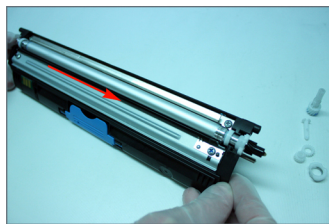
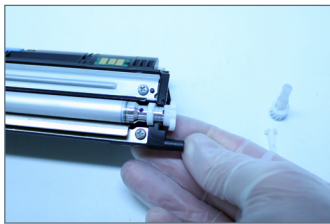
Step Three

On the other side of the DVR – we use the same technique to remove the internal pin & gear, gently push in against the cartridge and pull the gear from the DVR sleeve.



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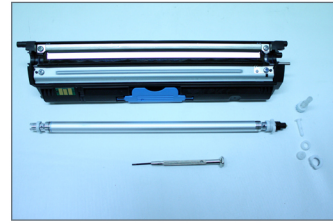
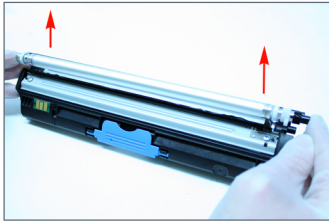


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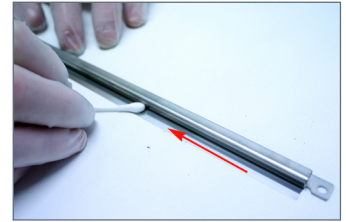
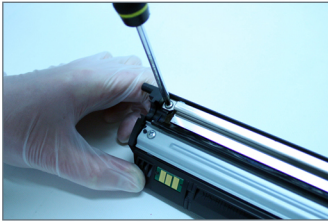
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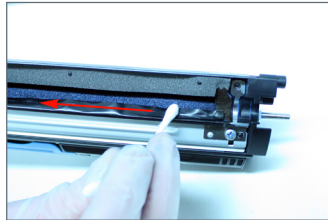
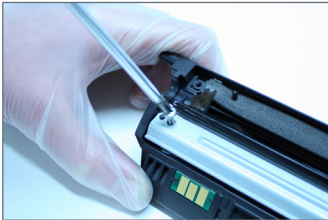
Step Five

Remove to clean the doctor-blade, during testing we found some OEM Toner contamination on the surface of the blade, we used Iso-propanol Alcohol and a Q-tip to gently clean the contaminated area.



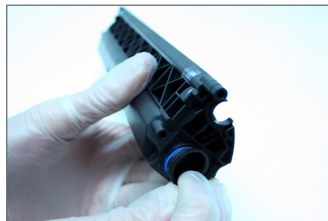
Step Six

Remove the Toner Hopper Seal Plate & Gasket Assembly from the cartridge, taking care not to break the small join from the Foam Gasket and End Felts



Once removed this allows cleaning access into the toner hopper, during our testing we used a small vacuum pipe to clean the majority of the remaining toner.

We then used compressed air to remove the final remaining toner from the Adder Roller. We did not remove the Adder Roller and care must be taken during cleaning not to damage the surface of the roller. In many cases the adder roller is coated with a charging agent required to help in the development of the toner.



Step Seven

Remove the Toner Hopper Fill Plug – we managed to pull the plug using our fingers, but otherwise you can use a larger flat blade screwdriver to gently prise out the plug – care must be taken as the screwdriver can 'dent' the plug which results in toner leaking from the cartridge after refilling.

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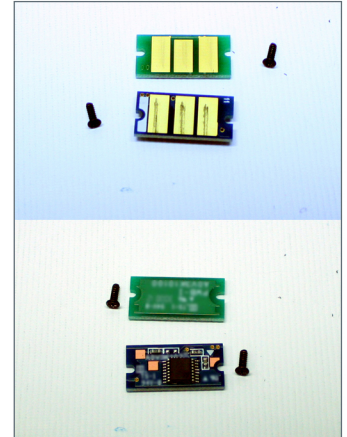
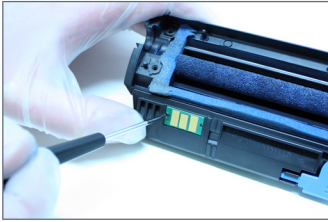
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Step Eight

CHIPS – The chip must be replaced.

As a point to remember, the Starter Cartridges ship with a 'Dummy' chip. It would be likely the printer has a preset amount of pages it will count to and then the starter cartridges are no longer accepted.

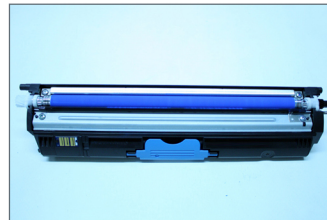
Replacing the Starters with Standard or Hi Capacity resets the printer to allow continued printing.



The image to the right shows the starter cartridge chip in Green, and the OEM standard in Blue >>>

Step nine

Once all the components have been cleaned and replaced back into the cartridge, refill with AQC Group UK compatible replacement toner.



Please visit our Forum and follow the link for more remanufacturing guides:

www.aqcgroup.co.uk/forum

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