



## Brother Refill Instructions

### Specific Cartridge Series

LC203, LC205, LC207, LC209



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## Tools and Supplies Recommended and Available from R-JetTek:

- Anti-Static Bags, 4 x 6, 100/pk, #1932
- BroLuer, #JE1079, Refilling Tool Inks,
- Chip Resetter, Brother LC-203/205/207, #3406
- Inks for the LC203/205/207/209 cartridges are listed on the ink chart below, and are available in various sizes (4oz to 882oz containers)
- Syringe, 20cc, #1953
- Syringe, 30cc, #1951
- Syringe, 60cc, #1952
- Syringe Tips, Clear, #1955
- Syringe Tips, #1959

## Ink Chart

Cartridge #	Color	Ink #
203, 207, 209	Black	BKP45
203, 205	Cyan	C512
203, 205	Magenta	M512
203, 205	Yellow	Y512

## Approximate Weights and Fill Volumes

Cartridge #	Size	Color	Empty Weight (grams)	Ink (ml)	Full Weight (grams)
LC-203BK	XL	Black	30	13	43
LC-203C	XL	Cyan	26	6	32
LC-203M	XL	Magenta	26	6	32
LC-203Y	XL	Yellow	26	6	32
LC-207BK	XXL	Black	33	27	60
LC-205C	XXL	Cyan	26	12	38
LC-205M	XXL	Magenta	26	12	38
LC-205Y	XXL	Yellow	26	12	38
LC-209BK	XXL	Black	45	51	96

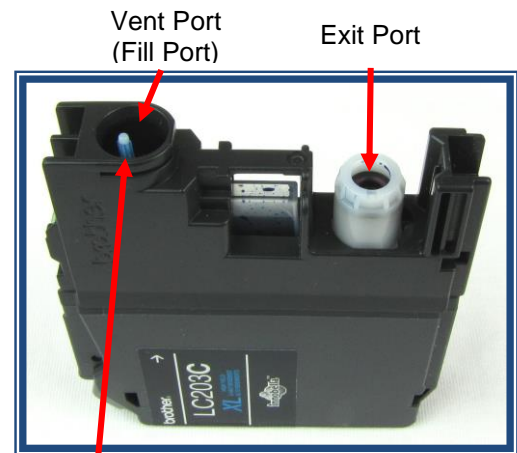
## Cartridge Parts and Function

### Brother LC-203, LC-205, LC-207, and LC-209 Series

**Exit Port** – This releases ink from the cartridge to the printer/print head.

**Vent Port** – As ink flows out of the cartridge the vent port allows air into the cartridge. This port is also used to refill the cartridge. So, it can also be called the **Fill Port**.

**Valve Actuator** – This opens the valve that vents the cartridge. Installing the cartridge into the printer pushes the actuator in, which opens the valve. The valve closes when the cartridge is removed. During filling this actuator is depressed, which allows the ink from the syringe to flow into the cartridge.



Valve Actuator Figure 1

## ESD Precautions

The LC-203/205/207/209 Series have a chip on the cartridge.

**Warning:** Special care must be taken when handling these cartridges. DO NOT touch the circuit or contact pads unless properly grounded. To prevent damage to the chip follow common ESD safety procedures – for example see:

[en.wikipedia.org/wiki/Electrostatic\\_discharge](http://en.wikipedia.org/wiki/Electrostatic_discharge)

## Refill Process

The refilling process works by removing air, creating negative pressure (vacuum) inside the cartridge. The ink is then pulled into the cartridge by this negative pressure.

1. Attach the Syringe Tip (#1959) to the 30ml syringe. Insert this tip into the Exit Port of the cartridge.
2. Position the cartridge so that the Exit Port is at the bottom, and then pull back on the plunger to remove any extra ink remaining in the cartridge. See Figure 2.
3. Place the cartridge, with the ports facing up, onto a solid surface.
4. Using the same syringe and syringe tip in Step 1, insert this tip into the Exit Port again. Pull back on the plunger and remove the syringe tip in one motion. This must be repeated 3 times, or until the plunger is difficult to pull back on. See Figure 3.

**Note:** This will remove air from inside the cartridge, and create the negative pressure needed to fill the cartridge.

5. Attach the Clear Syringe Tip (#1955) to the 20ml syringe.



Figure 2



Figure 3

6. Select the color ink for the cartridge you are going to fill, and draw the designated amount of ink for the cartridge into the syringe. [See page 2 \(Ink and Weight Tables\)](#).
7. Insert the Clear Syringe Tip into the Vent Port making sure that Valve Actuator slips inside the syringe tip (see Figure 4). **Caution:** Make sure that you do not press the Valve Actuator while inserting. If this happens the pressure will be released, and you will have to start over at Step 1.
8. Press down while holding the syringe at a slight angle. The ink will now flow into the cartridge.
9. If all the ink does not enter the cartridge then create more vacuum in the cartridge by repeating Step 4, but this time hold the cartridge at a 45° angle. [See Figure 5](#). Then repeat Steps 7 and 8.



Figure 4

## Extra Large Cartridges

Cartridges like the LC-209XXL have a large volume of ink, and so it is recommended that you use the JE1079, BroLuer.

**Note:** If you fill large quantities of these cartridges you may want to purchase a BroLuer anyway. The BroLuer can make the vacuum/filling action easier. Contact your Sales Rep for more information or go to our website at [www.rjettek.com](http://www.rjettek.com).

## Chip Resetter

The LC-203/205/207 series cartridges have a chip, which primary purpose is to provide ink levels. We recommend the purchase of the Brother Chip Resetter, which will reset the LC-203/205/207 chips so that the ink levels will be available on the printer. This is available from R-JetTek (p/n: 3406). Go to [www.rjettek.com](http://www.rjettek.com) for pricing and availability, also [see Figure 6](#).

**Note:** The LC-209 cartridge chip are not currently covered by the manufacturer for this model of the Brother Chip Resetter (#3406).

## Packaging

It is recommended that you seal the cartridge in an Anti-Static Bag (like the #1932) to keep the chip safe from ESD.



Figure 5



Figure 6