

# Bulk ink supply

## Installation instructions

### Horizontal (Case Coding) Applications

#### 1. Mounting

The bulk ink supply should be mounted so that the top of the reservoir is 1 3/8" (3.5cm) above the paper path / mail table. This location has been confirmed and tested, however altitude and atmospheric pressure will influence this level.



### Vertical (Printing Down/Mailing) Applications

#### 2. Mounting

The bulk ink supply should be mounted so that the white outputs of the reservoir are 1.5" to 2" below the print head (cartridge nozzles). This location has been confirmed and tested, however altitude and atmospheric pressure will influence this level.

#### 3. Install connections

If your bulk ink supply is not configured you should make your connections at this time.

The reservoir has 12 tapped holes for accommodating different mounting requirements, 4 on opposite sides and 4 on the bottom. Holes can be closed off with the stainless threaded plugs. Connection locations should have the vinyl male connections installed. All threaded connections should have Teflon tape applied to the threads to ensure a leak free connection. Make sure the Teflon tape does not extend past the threads.



To connect ink tubes first separate them from each other at the ends. Initially you should separate about 4" (10cm) to allow for connection to fittings. Push tubes firmly but carefully over ink ports on the reservoir using caution not to break fittings. Next, install the quick connects to the other end of the tubing using the same method. Emery cloth can be used to grip the tubing better.

#### **4. Priming the bulk ink supply**

It is now time to prime the reservoir and tubing with ink. It is recommended that you wear latex or similar gloves also eyeglasses or safety glasses should be used when performing this procedure, as leaks are possible. Locate the 1 liter ink bottle and attach it to the quick connection fitting on the top of the bulk ink supply. At this point ink may or may not begin to fill the reservoir. If ink begins to flow allow it to fill the reservoir. If it does not begin to flow you will need to apply gentle pressure to the sides of the bottle in a squeezing motion to get the ink flowing. Caution: do not overfill. If you overfill the reservoir ink will begin to spill out of the overflow vent located on the top of the reservoir. Step 4 will allow you to determine the level of the ink.

#### **5. Priming the lines**

To prime the ink tubing you must depress the plunger within the quick connect fitting. Hold the fitting with the end approximately 1" (2 cm) above the top of the bulk ink supply and depress the plunger. Ink will run into the tubing. Slowly lower quick connect fitting to below top of reservoir until ink fills the tube. Do this slowly or ink will spill out of the top of the fitting. Repeat this for all lines.

As you hold the tube against the side of the reservoir with the plunger depressed, the level of the ink in the tube will show you the exact level of ink in the well. Use this to determine your fluid level. If it is too low, release the plunger on the quick connect fitting and gently squeeze the bottle to fill more ink. Check again by the same method. Ink level should be approximately  $\frac{1}{4}$  -  $\frac{1}{2}$ " (1 - 1  $\frac{1}{2}$  cm) below seal line.

## **6. Installing cartridges**

Installation of the cartridges is no different than with ordinary cartridges. Once the cartridges are installed in the print heads, remove the connection covers and connect the ink supply tubes. Once the connections are made you must use caution when removing cartridges from the print head. If you lower the cartridge below the top of the reservoir the cartridges will bleed ink out. If you raise the cartridge over 6" above the print head you will pull air into the cartridge. This will cause it to de-prime and possibly be unrecoverable.

## **7. Checking your level**

Once all of your connections are made you may observe a small bubble of air form in the apex of the tube. This is normal. Test the print quality by running several purge patterns and test patterns. After these tests, leave a clean sheet of paper under the print head(s).

Check the paper within 1 minute of initial placement. If there is no noticeable ink wait 5 minutes and check again. If there is still no sign of ink check back again after 20 minutes. If there is no weeping, or dripping this is a good installation height.

If the cartridges are leaking or weeping after the first check immediately lower the bulk ink supply  $\frac{1}{4}$ " ( $\frac{3}{4}$  cm) wipe cartridges with a lint free cloth and begin test again. Continue this procedure using  $\frac{1}{4}$ " ( $\frac{3}{4}$  cm) increments until ink no longer weeps from cartridges.