

# Next Series 8 CIJ Printer Operators guide

Part Number: 49-0001-01

Software version 01.04.07+ , Jan 2020



**PERSONAL INJURY:** ALWAYS WEAR RUBBER GLOVES AND SAFETY GLASSES WHEN HANDLING INKS AND SOLVENTS.

**PERSONAL INJURY:** ALWAYS WEAR RUBBER GLOVES AND SAFETY GLASSES DURING FLUIDIC MAINTENANCE.

**PERSONAL INJURY:** INKS AND SOLVENTS ARE POISONOUS, DO NOT INGEST.

**PERSONAL INJURY:** DO NOT USE SOLVENT TO WASH INK FROM SKIN. IF EXPOSED, GENTLY RINSE AREA WITH SOAPY WATER. IF IRRITATION PERSISTS, SEEK MEDICAL ATTENTION.

**PERSONAL INJURY:** BE AWARE OF DANGERS ASSOCIATED WITH FLUIDS. DO NOT USE A FLUID UNTIL YOU ARE FAMILIAR WITH THE SDS AND THE INGREDIENTS.

**PERSONAL INJURY:** FOLLOW ALL SAFETY GUIDELINES OUTLINED IN THE SDS OF THE FLUIDS BEING USED.



**EQUIPMENT DAMAGE:** DO NOT ADD FLUIDS UNLESS INSTRUCTED BY INDICATORS.

**EQUIPMENT DAMAGE:** THE PRINTHEAD MUST BE DRY BEFORE STARTING PRINTER.

**EQUIPMENT DAMAGE:** THE PRINTHEAD SHOULD NEVER BE COMPLETELY SUBMERGED IN SOLVENT.

**EQUIPMENT DAMAGE:** DO NOT ATTEMPT TO USE MULTIMETER TO TAKE MEASUREMENTS ON ANY COMPONENT WHILE THE MACHINE IS POWERED ON.

**EQUIPMENT DAMAGE:** DO NOT USE MULTIMETER TO ATTEMPT TO MEASURE THE CHARGE VOLTAGE AT THE PRINTHEAD. THIS WILL PERMANENTLY DAMAGE THE MAIN BOARD



**FIRE HAZARD:** INKS AND SOLVENTS ARE HIGHLY FLAMMABLE. NO SMOKING OR OPEN FLAMES NEAR PRINTER OR FLUID STORAGE.



**ELECTRICAL SHOCK:** DISCONNECT MAIN POWER CABLE PRIOR TO SERVICING MACHINE.

**ELECTRICAL SHOCK:** NEVER RUN MACHINE WHILE ELECTRONICS COMPARTMENT DOOR IS OPEN.

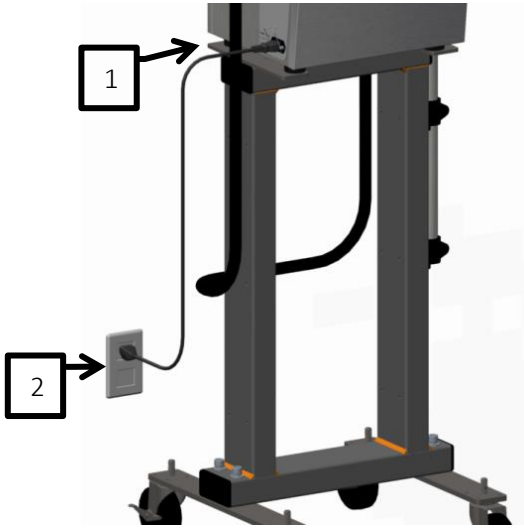



**EQUIPMENT DAMAGE:** The Next Series 8 CIJ must be Grounded/Earthed! Failure to provide adequate grounding/earthing will result in damage to the circuit board, printhead, and the power supply. This damage will occur over time. The Next Series 8 CIJ Power Supply generates a DC Ground to support the function of the Printer, but this does not protect from static or power surges.



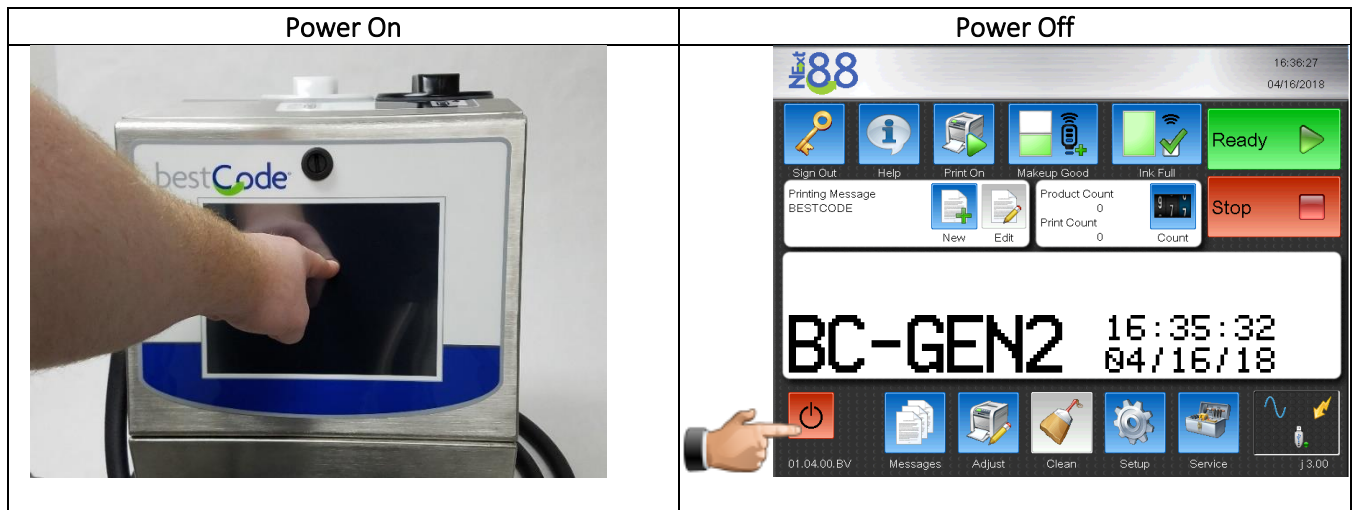
**PERSONAL INJURY & EQUIPMENT DAMAGE:** Do not use any power cord that is not provided by BestCode. Power cords must have 3 prongs, live, neutral, and ground provided. Power socket-outlet must provide reliable earth ground. Power cord and outlet must remain clean and dry. The socket-outlet shall be installed near the equipment and shall be easily accessible. Do not use extension cords!

Follow all local safety regulations during installation and operation of the Next Series 8 CIJ.

Ideal Mounting	Setup Time: 30 minutes
<ol style="list-style-type: none"> <li>Follow instructions included with 40-0019-01 Controller Stand.</li> <li>Plug the attached power cord into the power socket.</li> </ol> <p><i>The socket-outlet shall be installed near the equipment and shall be easily accessible.</i></p>	

Printhead mounting	Setup Time: 15 Minutes
<ol style="list-style-type: none"> <li>Secure the printhead into the printhead clamp. Clamp is included with: Kit 40-0003-01 Printhead Floor Mount Kit 40-0004-01 Printhead Conveyor Mount</li> <li>The gutter should always be towards the floor.</li> <li>Keep the gap between the product and the print slot at 1/16"-1/2" inch.</li> <li>Keep printhead square to the product to prevent print distortion.</li> </ol> <p>A 5°-10° angle between head and product may be necessary in high static environments.</p>	

## Power On / Off



## Start / Stop Jet



**Clean Start & Clean Stop** are the normal production starts and stops. These use a small amount of makeup per routine. The software will automatically protect the operator from adding too much makeup. When the operator is logged in using the Technician Level Password, all Starts & Stops from the Home screen will be clean stops. This is to help diagnose Clean Start and Clean Stop problems.

## Selecting a message for print

- Press the Messages Button.
- Select the desire message.
- Press the Select button.
- The selected message will now be the actively printed message.



Messages

**BC-GEN2** 18:56:49  
04/26/18

Print	Name	ID
	BESTCODE	-
	BESTCODE-AUTO	-



Select

Printing Message  
BESTCODE-AUTO





New










Edit

## When to Add Ink






<p>The BestCode Next Series 8 CIJ will begin requesting an Ink bottle be added when the Float switch in the Ink Tank is in the low state.</p> <p>An on-screen pop-up Ink Warning, 10-0003 will occur every 6 minutes while the Ink Tank is in this State.</p>		<div style="background-color: #ffff00; padding: 10px; border: 1px solid black;"> <p><b>! Ink Warning</b></p> <p>Ink fluid level is low.</p> <p>Action Required: Add SmartFill Ink</p> <p>10-0003 <span style="float: right; border: 1px solid black; padding: 2px 10px;">OK</span></p> </div>
<p>After 250,000,000 drops have been printed while in the low state, the system will give the Empty warning 10-0002.</p> <p>A bottle of SmartFill Ink must be added to the machine before the Jet can be started.</p>		<div style="background-color: #ff4500; padding: 10px; border: 1px solid black;"> <p><b>⊘ Ink Fault</b></p> <p>Ink fluid level empty.</p> <p>Action Required: Add SmartFill Ink</p> <p>10-0002 <span style="float: right; border: 1px solid black; padding: 2px 10px;">OK</span></p> </div>

## How to Add Ink

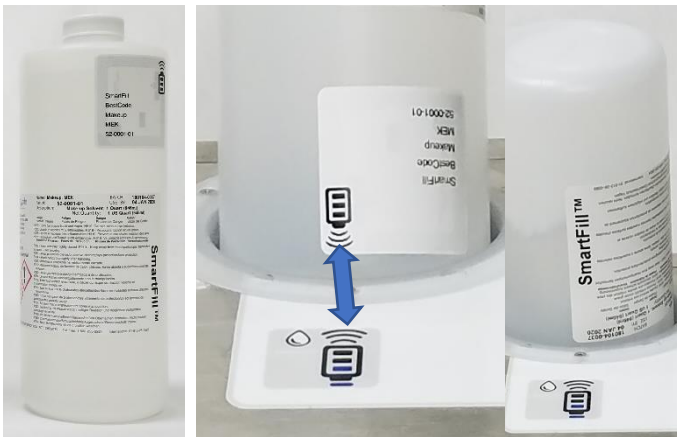







<ol style="list-style-type: none"> <li>1. Place 1 capped bottle of Ink in the Ink Smartfill Cup.</li> <li>2. Make sure the SmartFill symbols are aligned.</li> </ol>		
<ol style="list-style-type: none"> <li>3. Press the Ink Status button on the Screen.</li> <li>4. This process works for Low and Empty situations.</li> </ol>	<p style="text-align: center;">Low</p> 	<p style="text-align: center;">Empty</p> 
<ol style="list-style-type: none"> <li>5. Wait for the pop-up (10-0001)</li> <li>6. DO NOT PRESS OK</li> </ol>	<div style="background-color: #00ff00; padding: 10px; border: 1px solid black;"> <p><b>✓ Success</b></p> <p>51 - 0001 - 01 Ink, MEK Black</p> <p>10-0001 <span style="float: right; border: 1px solid black; padding: 2px 10px;">OK</span></p> </div>	

 <p>Heavy Pigment fluids must be shaken for 1 to 2 minutes to ensure that the pigment is suspended in the fluid and not caked to bottle. Failure to shake to bottle will result no pigment being in the tank. This will make faint print that is not bright.</p> <ol style="list-style-type: none"> <li>Remove the Ink bottle, and remove the cap</li> <li>Insert the bottle and press firmly to break the foil seal</li> </ol>	
<ol style="list-style-type: none"> <li>Wait for 1-2 minutes for the bottle to drain</li> <li>Discard the empty ink bottle in accordance with local regulation.</li> </ol>	
<ol style="list-style-type: none"> <li>Press OK on the Success screen pop-up (10-0001)</li> </ol>	

### When to Add Makeup

<p>The BestCode Next Series 8 CIJ will allow a Makeup bottle to be added when the Float switch in the Makeup Tank is in the OK state.</p>	
<p>The BestCode Next Series 8 CIJ will begin requesting a Makeup bottle be added when the Makeup float switch in the Makeup Tank is in the low state.</p> <p>An on-screen pop-up Makeup Warning, 11-0003 will occur every 6 minutes while the Makeup Tank is in this State.</p>	 <div data-bbox="1101 1415 1523 1654" style="border: 1px solid black; background-color: #ffff00; padding: 5px;"> <p> <b>Makeup Warning</b></p> <p>Makeup fluid level is low.</p> <p>Action Required: Add SmartFill Makeup</p> <p>11-0003 <span style="float: right; border: 1px solid black; padding: 2px 5px;">OK</span></p> </div>
<p>When the Makeup float switch is in the low state, 15 Makeup Adds will be allowed, and then a Makeup Fault 11-0002 will occur. The Jet cannot be started again until a new bottle of SmartFill Makeup is added.</p>	 <div data-bbox="1101 1709 1523 1948" style="border: 1px solid black; background-color: #ff6600; padding: 5px;"> <p> <b>Makeup Fault</b></p> <p>Makeup fluid level empty.</p> <p>Action Required: Add SmartFill Makeup</p> <p>11-0002 <span style="float: right; border: 1px solid black; padding: 2px 5px;">OK</span></p> </div>

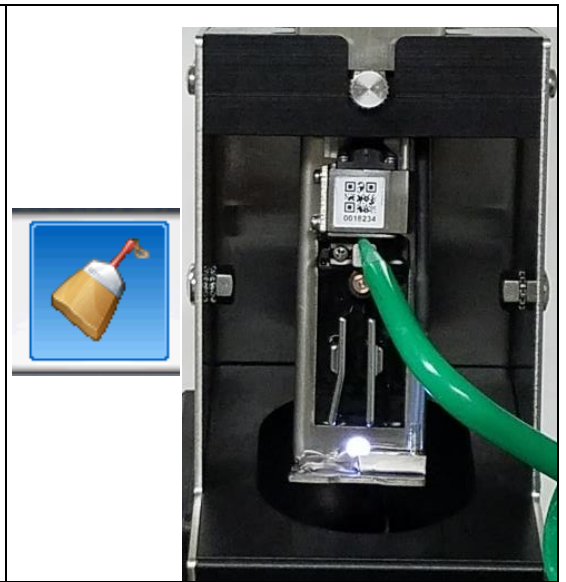
## How to Add Makeup

<ol style="list-style-type: none"> <li>Place 1 capped bottle of Makeup in the Makeup Smartfill Cup .</li> <li>Make sure the SmartFill symbols are aligned.</li> </ol>			
<ol style="list-style-type: none"> <li>Press the Makeup Status button on the Screen.</li> <li>This process works for Low, Empty, and OK situations.</li> </ol>	<p>Empty</p> 	<p>Low</p> 	<p>OK</p> 
<ol style="list-style-type: none"> <li>Wait for the pop-up (11-0001)</li> <li>DO NOT PRESS OK</li> </ol>			
<ol style="list-style-type: none"> <li>Remove the Makeup bottle, and remove the cap</li> <li>Insert the bottle and press firmly to break the foil seal.</li> </ol>			
<ol style="list-style-type: none"> <li>Wait for 1-2 minutes for the bottle to drain</li> <li>Discard the empty Makeup bottle in accordance with local regulation.</li> </ol>			
<ol style="list-style-type: none"> <li>Press OK on the Success screen pop-up (11-0001)</li> </ol>			



## Backflush Nozzle

1. Place the Printhead into the Printhead Clean Station (P/N 40-0020-01)
2. Press the Back Flush button (Service screen OR Clean screen).
3. Using the cleaner for the ink type of the machine, immediately spray makeup directly onto the nozzle plate for 10 seconds. (50-100ml of cleaner).
4. Focus on cleaning the Drop Generator Nozzle, Phase Detector, Charge Electrode Slot, High Voltage Plates, Gutter, and Print Slot.
5. Allow the head to completely dry before starting the jet.



## BestCode Information

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BestCode product and fluids are available through distribution around the globe.  
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