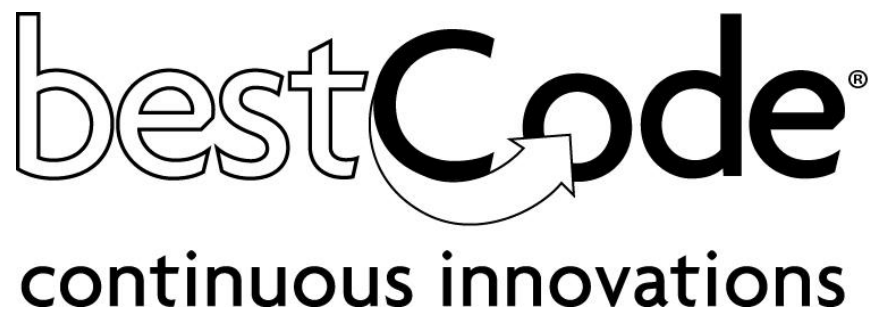




Follow
instructions
before
operating.



Next Series 8 and Quantum CIJ Printer Commissioning guide

Part Number: 49-0005-01 (Rev. E)

Software version 01.06.00.10+

Updated: March 2023

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.


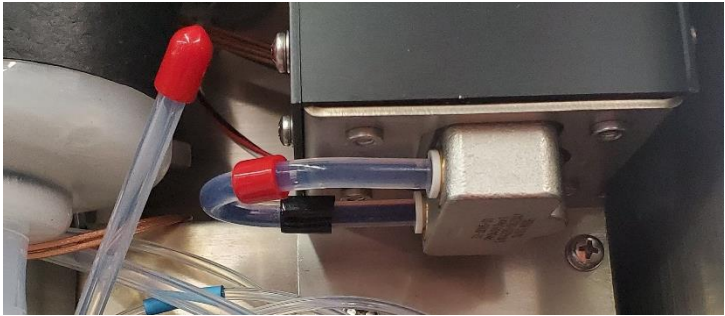
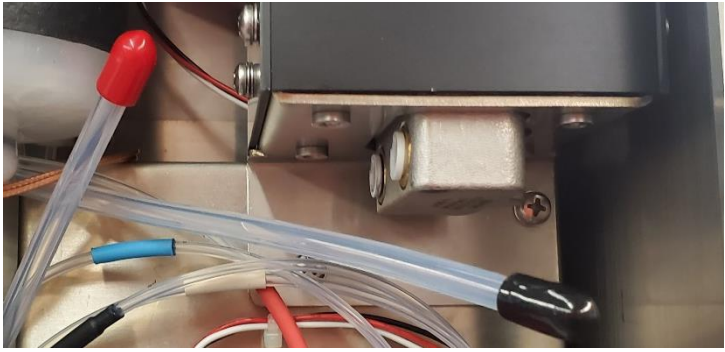

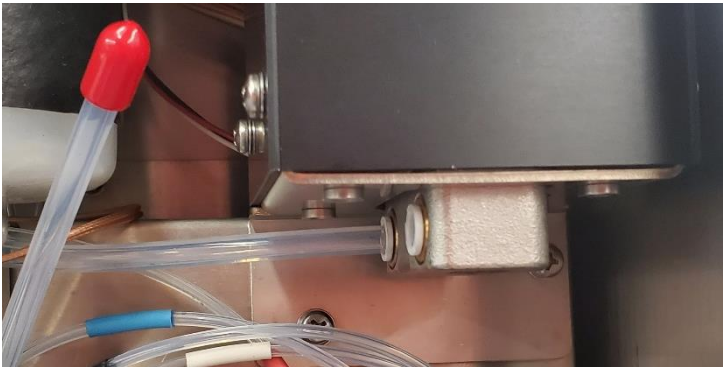


CodeProtect™ BestCode Warranty and Support

BestCode products are delivered with a 2 Year Manufacturer's Limited Warranty. Call or email your local distributor for detailed warranty information.

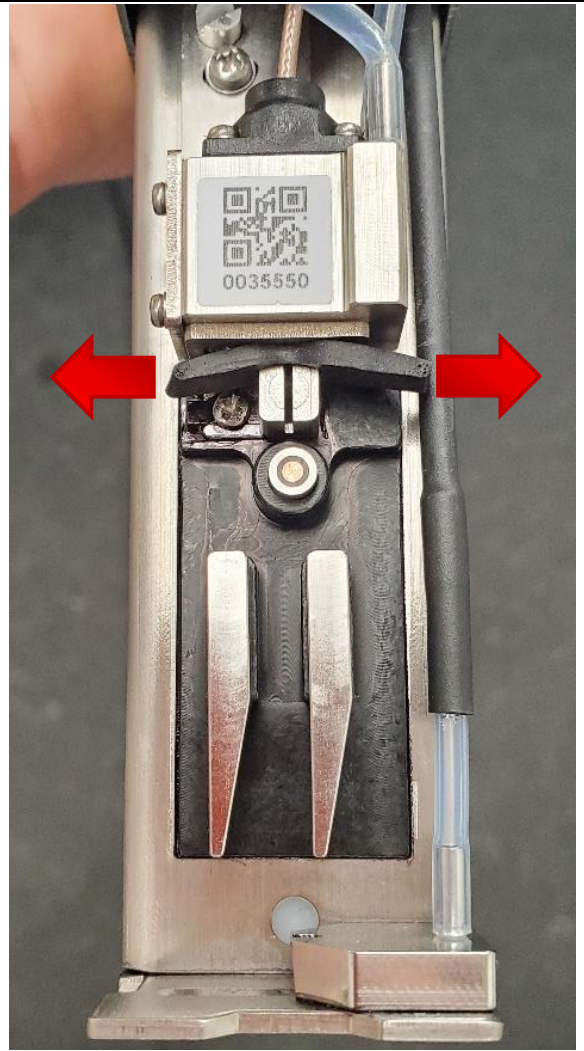




EQUIPMENT DAMAGE: Follow these instructions before powering on the machine. Failure to connect pump tubes may lead to permanent pump damage.

Pre-Power Up Guide	Procedure Time: 2 minutes
<ol style="list-style-type: none">1. Locate the ¼” pump tubes with Red and Black coding.2. Remove the Red and Black end from the pump. <p> The red tube is on the pressure side of the pump, and flows into the main ink filter. Verify the tube connects directly to the main BestCode Ink Filter.</p>	 
<ol style="list-style-type: none">3. Remove the Black cap from the tube.4. Wet the pump fitting o’ring with cleaner and firmly press the black tube into the rear fitting on the pump. <p> Pull back on the tube to ensure that it is completely seated and sealed into the pump fitting. Failure to fully insert the tube will cause ink leakage.</p>	
<ol style="list-style-type: none">5. Repeat for the Red tube in the front Port. <p> The black tube is on the vacuum side of the pump, ensure that it is connected to the Ink Pickup tube in the Ink Tank.</p>	


6. Remove the Nozzle Shipping Gasket. The gasket is highly elastic and should be stretched outwards and then lifted up from between the nozzle and charge electrode.


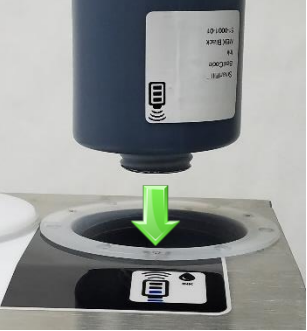













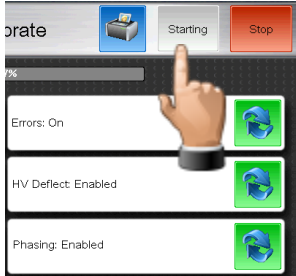







Commissioning

The commissioning process is a 90–120-minute step by step guide for installing and preparing the Next Series 8 or Quantum CIJ for production operation.

Make sure the Controller is properly mounted.

<p>Pre-fluid test</p> <ol style="list-style-type: none"> Navigate to the fluidic screen Home > Service > Fluidic Press each valve button one at a time and listen for the click.  <p>EQUIPMENT DAMAGE: Do not run the pump until the Pre-Power Up Guide is completed.</p>	<p>Procedure Time: 5 Minutes</p>  
<p>Commission the Ink Type</p> <ol style="list-style-type: none"> Navigate to the SmartFill Technician Screen Login as Technician >Service>Tools>Technician>Smartfill Select the ink type that matches the ink to be installed and save Press the Commission System button to Save Check the Help Screen to confirm 	<p>Procedure Time: 5 minutes</p>  
<p>Adding Fluids</p> <p>Series 8 Printer</p> <ol style="list-style-type: none"> Place 1 un-opened bottle of Ink in the Ink Smartfill Cup then press the Ink Level button on the Home Screen.(Leave the Ink Cap on!) <p>Quantum Printer</p> <ol style="list-style-type: none"> Place 1 un-opened bottle of ink in front of the Smartfill scanner then press the ink level button on the Home Screen 	<p>Procedure Time: 5 minutes</p> 

<ol style="list-style-type: none"> After the Success pop-up, remove the cap and press the bottle firmly into the Ink Smartfill Cup. Press OK after the bottle has completely drained. 		
<p>Series 8 Printer</p> <ol style="list-style-type: none"> Place 1 un-opened bottle of Makeup in the Makeup Smartfill Cup then press the Makeup Level button on the Home Screen.(Leave the Makeup Cap on!) <p>Quantum Printer</p> <ol style="list-style-type: none"> Place 1 un-opened bottle of Make-up In front of the Smartfill scanner then press the Make-up level button on the Home screen. 	  	
<ol style="list-style-type: none"> After the Success pop-up, remove the cap and press the bottle firmly into the Makeup Smart Fill Cup. Press OK after the bottle has completely drained. 		
<p>First time jet Start</p>	<p>Procedure time: 15 minutes</p>	
<ol style="list-style-type: none"> Secure the printhead into the Printhead Clean Station (40-002-01) Disable the High Voltage, and Phase 		<p>Errors: On </p> <p>HV Deflect: Disabled </p> <p>Phasing: Disabled </p>
<ol style="list-style-type: none"> Press the Start Button on the Service Screen Clear any errors that appear and repeat from Step 3 until the jet starts without errors. 		

<p>5. Stop the Jet, then perform the backflush nozzle routine up to 6 times.</p>	 
<p>6. Dry the printhead, then start the Jet normally with Errors, High Voltage and Phase enabled.</p>	 
<p>Verify the Modulation</p>	<p>Process Time: 30-75 minutes (depending on ink viscosity)</p>
<p>1. Run until the Viscosity is within range of the Target Viscosity. (2.3-3.3cP or 4.0-5.0cP depending on ink type)</p>	<div style="border: 1px solid black; padding: 5px;"> <p>Viscometer: Wait, 49 Target: 4.5 cP, Actual: 4.5 cP, 81.2 s Printhead: 24 °C, Electric: 27 °C</p>  </div>
<p>2. Decrease modulation to 30V below the set point and test the print</p>	<div style="border: 1px solid black; padding: 5px;"> <p>Modulation: 140 Volts - B</p>  <p>BC-GEN2 15:43:05 04/18/18 </p> </div>
<p>3. Increase the modulation to 30V above the set point and test the print a. If the print is not acceptable, perform a modulation calibration.</p>	<div style="border: 1px solid black; padding: 5px;"> <p>Modulation: 200 Volts - B</p>  <p>BC-GEN2 15:44:09 04/18/18 </p> </div>
<p>4. Return the Modulation to the set point and inspect the drop breakup.</p>	<div style="border: 1px solid black; padding: 5px;"> <p>Modulation: 170 Volts - A</p>   </div>

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BestCode product and fluids are available through distribution around the globe.
Contact your local BestCode distributor for ordering information.



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