Color Pro
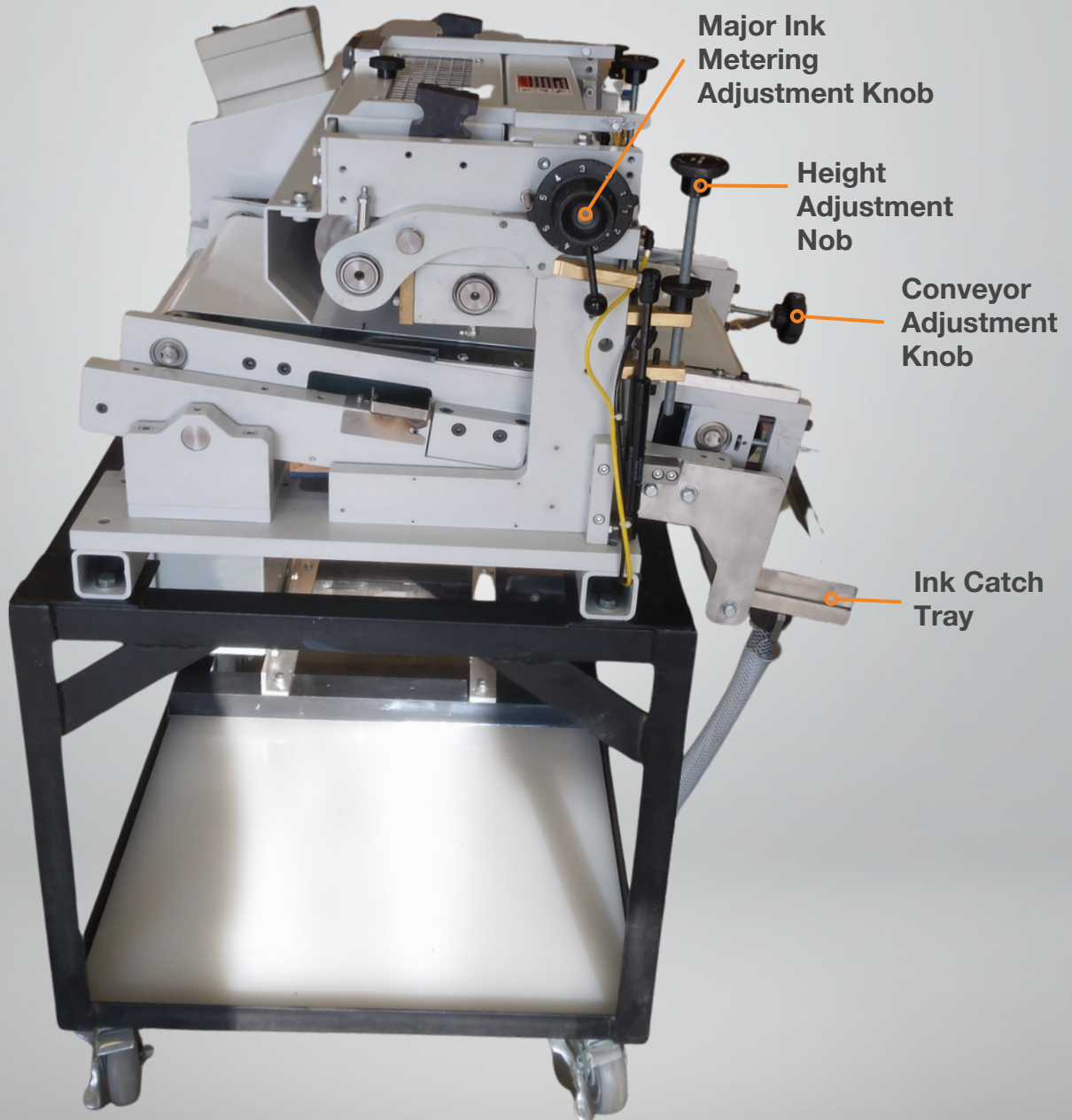
OPERATING INSTRUCTIONS
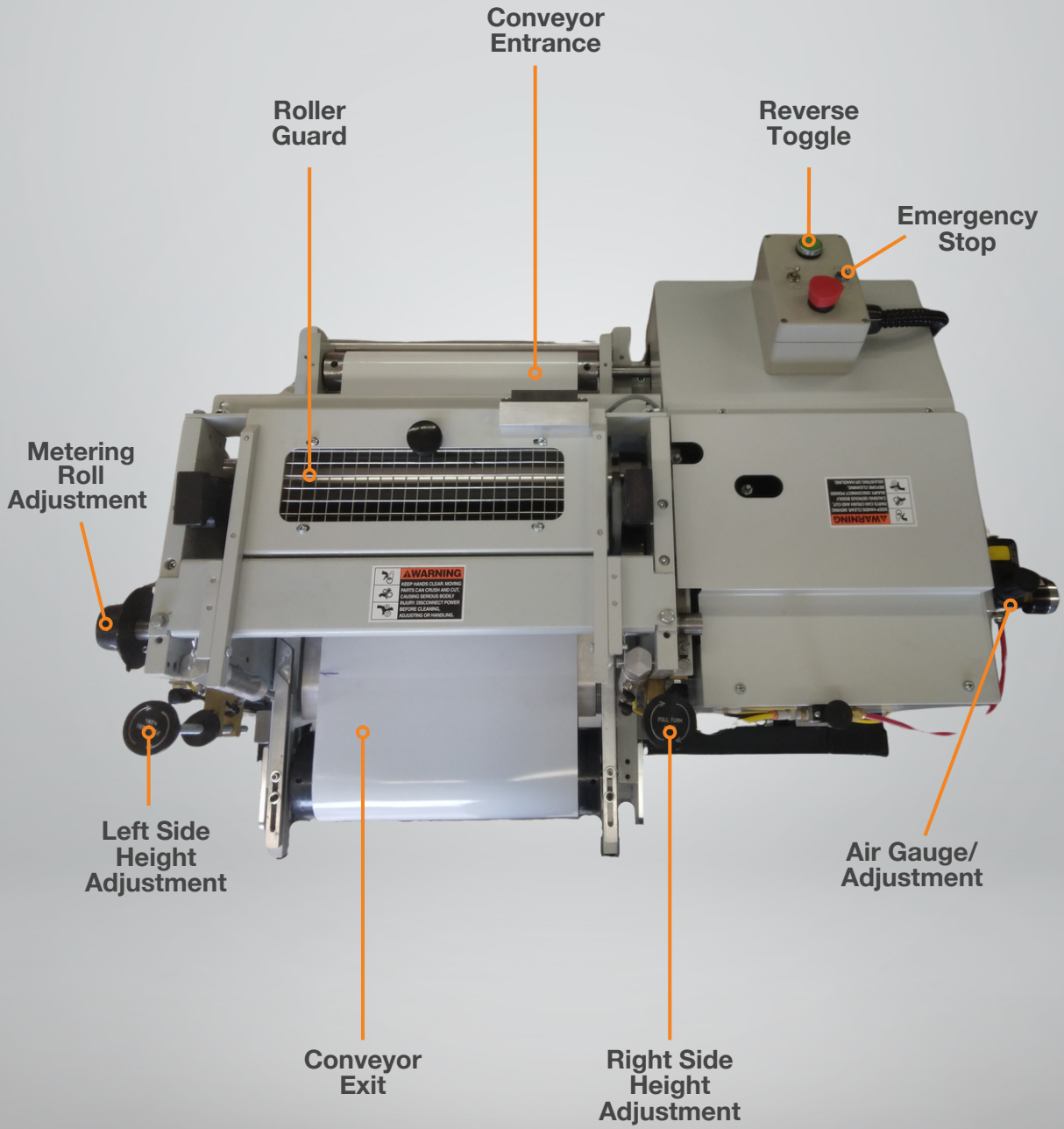

NP Nova Polymers

Innovative Solutions for the Sign Fabricator.

Major Ink Metering Adjustment Knob

Height Adjustment Nob

Conveyor Adjustment Knob

Ink Catch Tray

NP

Conveyor Entrance

Roller Guard

Reverse Toggle

Emergency Stop

Metering Roll Adjustment

Left Side Height Adjustment

Air Gauge/ Adjustment

Conveyor Exit

**Right Side Height Adjustment**

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SET-UP PROCEDURE

1. Set "Metering Roll Adjustment Lever" to 1.

2. Adjust the "Metering Roll Set Screw" to ensure the gap between the Metering Roll and the Ink Roll is minimal. A sheet of copy paper can be used for this step. The distance between the two rolls should be tight enough that it grips the paper but allows it to be pulled out without ripping.

3. With the Color Pro off, place the test material on the Conveyor sliding it under the Ink Roller. You should be able to slide the part completely through under the roller. If the roller is too low causing the part to not pass through, adjust the height of the Conveyor using the adjustment screws until the part passes through freely.

4. Conveyor Belt should come from factory pre adjusted. If you are experiencing slipping or the Conveyor is not wanting to move freely, you can adjust the tension using the adjustment knobs at the end of the Conveyor on the back of the machine.

5. Open the Roller Guard and add ink.

6. Start the machine and place the part on the Conveyor. As the part comes out, ensure you have full and even coverage of ink on all raised copy. If not, adjust the screws up or down and pass the part through again. This should be continued until you have full even coverage on the raised copy.

7. If ink laydown is too thin, adjust the "Metering Roll Adjustment Lever" to a higher number. This will open the gap between the Ink Roller and the Metering Roll increasing the amount of ink being transferred to the part. If opening to the five position still does not allow for enough ink laydown, you can adjust the gap wider using the "Metering Roll Set Screw."
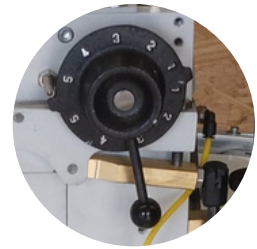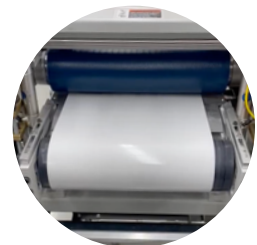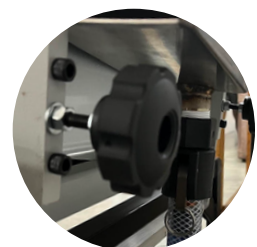

Metering Roll
Adjustment Lever
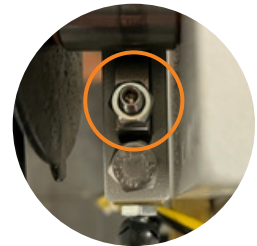
Metering Roll
Set Screw

Roller Guard

Conveyor Belt

Conveyor Adjustment
Knob

OPERATING PROCEDURE

1. With the Color Pro off, place the test material on the conveyor sliding it under the Ink Roller. You should be able to slide the part completely through under the roller. If the roller is too low causing the part to not pass through, adjust the height of the conveyor using the adjustment screws until the part passes through freely.

2. Set the print cylinder to Metering Roll adjustment lever to Position 1.

3. Raise the Ink Roller Guard and add ink pouring across the length of the rollers.

4. Ensuring the Color Pro is plugged into a standard 110 volt outlet, turn the machine on. Flip the white switch to the "On" position and press the black "Start" button.

5. Close the Ink Roller Guard and start the conveyor and Ink Rolls by toggling the switches on the control panel to the forward and run position.

6. The "minor adjustment set screw" may need to be adjusted to ensure the ink is thinned on the roller. To do this slowly turn the set screw in the counterclockwise direction until the layer of ink on the roller is smooth. Take care not to over tighten as this can cause unnecessary tension on the rollers causing wear and could also cause a fuse to blow.

7. If you have an extra sign that is the same thickness as you will be running, use this as a test piece to set the conveyor belt bed height to the correct position by placing the sign on the moving conveyor, visually check the ink coverage, and adjust the conveyor fine adjustment knobs either up or down and put the part back through until you get the required ink coverage. Once you are satisfied with the coverage on your test piece, you can start to run your production pieces through the Color Pro machine.

   - If you do not have an extra sign, you can place transfer tape over the sign face and repeat the steps above until you are getting consistent coverage over the piece. You can then allow the ink to dry on the transfer tape, remove from the sign face and start your production run.
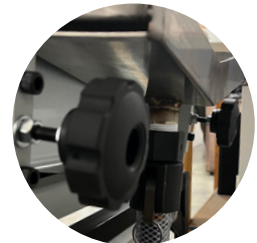
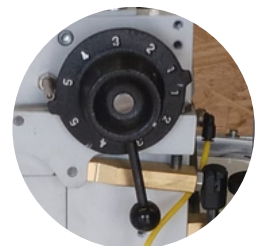   *Using this method may require a fine adjustment to the Conveyor height to allow for the thickness of the transfer tape.*

White Power Button

Black Start Button

Control Panel

Conveyor Fine Adjustment Knobs

Metering Roll Adjustment Lever

8. Once all signs on the production run have been processed through the machine successfully with an adequate first layer of ink, and have had enough time to dry to touch, start with the first sign again, rotating 90° from the first pass through and run each piece in the production run back through the machine.

9. Depending on the color of the ink being used and the color of the painted sign, multiple passes could be required to achieve the proper ink opaqueness. Continue with the steps above rotating the sign 90° each pass until you are satisfied with the ink coverage.

10. If different thickness signs need to be ran, it is best to finish one thickness then set the machine up for the next thickness using the instructions in Step 2.

11. If the ink runs low in the Roller Chamber, you could experience webbing of the ink, and this could cause a texture on the inked surface. Ensure you have an ample amount of ink to finish the job, or you can also add ink to the roller section to re-wet the rollers.

Roller Chamber

12. Once the job is finished, you are ready to clean the machine and move on to the next production job. (See "Color Pro Cleanup Section" for this step.)

Note:

Signs with raised borders or larger images may require slightly more pressure to achieve proper ink coverage. This would require a slight adjustment to the height adjustment screws to achieve. Running this type of sign should be done at the end or beginning of your standard sign types and then make the necessary adjustment to accommodate for the remainder of the signs.

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CLEANING PROCEDURE

1. Using the Pneumatic Shock Lift Knob move the Conveyor Belt into the fully lowered position by pushing the button down.

2. Remove the compressed air hose from the unit to ensure the conveyor bed can not be brought back to the print position with the cleaning trey in place.

3. Attach the Ink Catch Tray with the Extended Hose to the back of the Color Pro, ensuring the metal rods insert into the holes in the bed frame.

Pneumatic Shock Lift Knob

4. Carefully place the Drain Tray on the Conveyor Belt, sliding it under the Roller Assembly and ensuring the narrow end rests on top of the Ink Catch Tray.

   (The two set screws on the front of the Conveyor bed should be set to ensure the drain tray is tilted back so the ink runs down to the ink catch tray).

5. Ensure the Ink Catch Tray's Draining Tube is placed into an appropriate and approved ink receptacle.

Ink Catch Tray

6. At this stage, ensure you have proper eye and hand PPE on for safety.

7. Lift up and open the Roller Guard Gate that covers the Roller Chamber.

8. Using the provided Color Pro Ink Chamber scraping tool, scoop as much of the remaining ink out of the chamber and then scrape off into an approved ink refuse container. This step should be repeated until the bulk of the ink in the chamber has been removed.

Extended Hose

9. Using an approved Color Pro cleaner, pour in approximately one-half cup of the cleaner between the two rollers pouring the length of the rollers from one end to the other. No need to over pour, as this step will be repeated 3-4 times to ensure the rollers are cleaned.

Scraping Tool

10. Close the Roller Guard and turn the machine on in the "Forward" position, allowing the cleaner to start the process of removing ink from the roller assembly. When the ink on the roller appears to be thinned or the roller is mostly free of ink, go to the next cleaning step.

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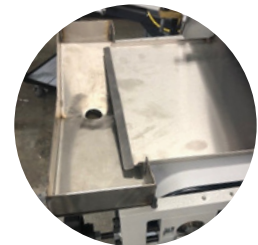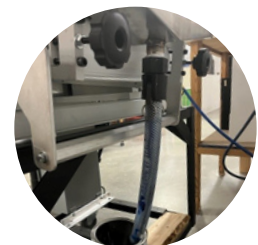
11. Stop the rollers and reverse the direction to allow the ink and cleaner that is on the rollers to run off onto the Drain Tray. When there is no longer a bead of ink and cleaner on the rollers repeat the step above by adding more cleaner and running the machine in the forward motion.

12. The action of pouring in cleaner and roller reversal will be repeated several times until the roller chamber is clean.

13. Open the Roller Guard and remove the end shims from each side of the roller assembly and wipe clean.

14. With the Roller Guard open and the Color Pro on, set the toggle switches in the "Reverse" and "Jog" positions. Press the green "Jog" button and at the same time wipe the rollers down with a clean rag and an approved cleaner. Continue this step until the rollers and the inside of the Roller Chamber are clean and free from ink.

15. Wipe the end of the Ink Catch Tray that is hanging over the drain trey until it is free of ink. (This keeps the ink from getting on the Conveyor when going to the next step). Slide the Ink Catch Tray out through the front of the machine, being careful not to raise it up so that it hits the rollers and puts ink back on them. Wipe the remainder of the ink catch trey until clean.

16. Remove the Ink Drain Tray from the machine and wipe clean.

17. Replace the roller end guards ensuring they are placed in the correct side of the machine as marked on the guard. This will be from the front of the machine to read left and right.

18. Adjust the "Metering Roll Set Screw" by turning in the clockwise direction to ensure there is a gap between the rollers with the "Metering Roll Adjustment Lever" set at the number 5 setting. This will keep the roller from getting a flat spot while not in use.

19. The Color Pro is now ready for the next product run. If you are done with production for the day, make sure to adjust the "Metering Roll Adjustment Lever" to position "5" to eliminate any pressure on the Ink Roll.

Forward + Reverse Toggles

Roller Chamber

Ink Catch Tray

Metering Roll Adjustment Lever

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Have questions?
Contact our team today!

888-484-NOVA (6682) l www.NovaPolymers.com l info@novapolymers.com