Powder Coating Systems



Color Change Procedures ColorMax® Powder Booth with Spectrum® II Feed Center and Prodigy® HDLV® Powder Transfer System 1066156A04





WARNING: Allow only qualified personnel to perform the following tasks. Follow the safety instructions in your powder coating equipment manuals.

OPERATOR A

1



Close the booth doors.

Move the booth offline if it is a Roll On/Roll Off booth.

2



Blow off:

- door seams at the entrance end
- operator doors
- gun slots

Wait for gun purge to complete.

Go to page 12 to continue Operator A tasks.

OPERATOR B

1

Main Menu

2

Auto Menu

3

Color Change

Lance/Purge Mode

> DISABLE SIEVE

Auto









OPERATOR B

1



Disconnect the reclaim and bulk feed transfer hoses from the sieve deck. (Bulk feed pump and hose are optional.) 2



Place the ends of the transfer hose(s) into the purge duct.

3



Unclamp the sieve and turn the pan chute so that it dumps into the collector chute. Reclamp the sieve.

OPERATOR B

1

Color Change

Lance/Purge Mode

> ENABLE SIEVE

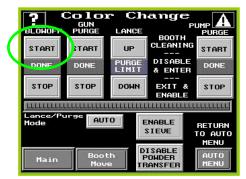


2

Color Change

BLOWOFF

START



NOTE: When the gun blowoff starts the lance assembly automatically raises.

3

Color Change

Allow VIRGIN Pump Purge?

YES



NOTE: Touching YES restarts the virgin powder pump so that it can be purged.

OPERATOR B

4



Remove the powder source from the feed center.

NOTE: If using a fluidizing hopper, turn the fluidizing air off and disconnect the air tubing from the hopper.

5



Blow off the lance assembly.



CYCLE DONE
Light flashes when gun
blowoff is complete.

COLOR CHANGE

OPERATOR B

1

Color Change

GUN PURGE

START



NOTE: The lance assembly automatically lowers onto the purge manifold.

2



COLOR CHANGE CYCLE DONE

Light flashes when gun purge is complete.

OPERATOR A:
Start cleaning the booth. Go to page 12.

NOTE: The lance assembly automatically raises when the gun purge is complete.

3



Blow off lances and feed center until clean.

OPERATOR B

1



For Hard-to-Clean Powders Only:

- Unclamp and remove the hose manifolds.
- Remove the gun pumps.
- Clean the lance tubes with a damp shop towel attached to a rod.
- Re-install the pumps and hose manifolds.

2



Systems with Alternate Color Hose Sets:

Unclamp and remove the hose manifolds.

Blow out the pumps.

3



Systems with Alternate Color Hose Sets:

Install the alternate hose manifold.

OPERATOR B





Systems with Alternate Color Hose Sets:

At the back of the spray guns, disconnect the powder feed hose from each spray gun and connect the alternate feed hose.

For Hard-to-Clean Powders Only:

Disconnect the powder feed hose from the gun.

Remove the nozzle and electrode from the gun and blow them off.

Blow air through the gun tube from the front to back.

OPERATOR B

1

Color Change

Lance/Purge Mode

DISABLE SIEVE



2



Unclamp and disassemble the sieve.

3



Blow off the deck, screen, and pan.

4



Assemble sieve with the pan chute toward the lances.

OPERATOR A

1



Blow off door sills at entry end of the booth, then enter booth and blow off ceiling and walls. 2



Blow off AeroDecks™

3



Blow out inlet duct and vertical duct.

For Hard-to-Clean Powders: Use damp cotton towels to wipe down the booth walls, sloped surfaces, floor, inlet duct, and vertical duct.

4



Set AeroDecks[™] in operating position and exit booth.

OPERATOR A

1

Color Change

PUMP PURGE

START





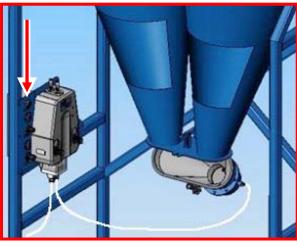
NOTE: Make sure all transfer hoses are parked in the feed center purge duct. Touch PUMP PURGE START twice to purge the reclaim and virgin HDLV pumps.

2



Open the transfer pan and blow out all powder remaining in pan.

3



NOTE: If the automatic pump purge sequence completes before the pan is clean, *press and hold* the MANUAL PURGE button on the reclaim pump panel to finish cleaning the pan.

OPERATOR A

4



Open the cyclone access doors and blow off the interior using the short wand, then the long wand.

For Hard-to-Clean Powders Only:

With a damp cotton towel, wipe all surfaces inside the cyclone and transfer pan.

5



Close and latch the cyclone access doors.

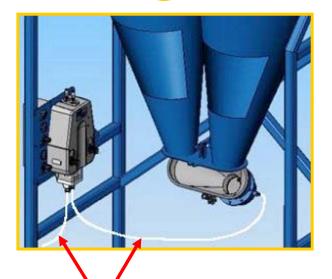
OPERATOR A

6



Close and latch the transfer pan.

7



Systems with Alternate Color Hose Sets:

Install an alternate hose between the pump inlet and the transfer pan.

Connect the alternate hose to the reclaim pump outlet.

If Switching to Spray-to-Waste:

Connect a transfer from the reclaim pump outlet to a waste container inlet.

OPERATOR B

1

Color Change

ENABLE SIEVE 2

Color Change

AUTO MENU 1

Auto Menu

PRESS TO FINISH **Auto Menu**

ENABLE POWDER TRANSFER





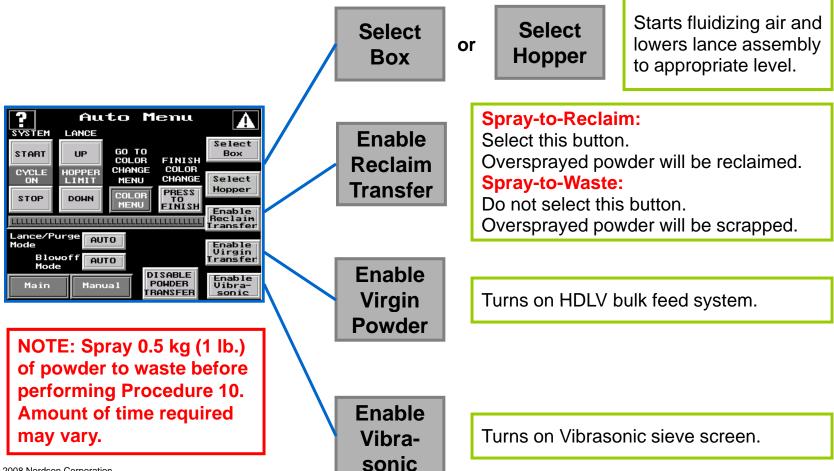




OPERATOR B

AUTO MENU SELECTIONS

Specify how the system will operate for this color run.



OPERATOR B

1 Spray to Reclaim Systems:

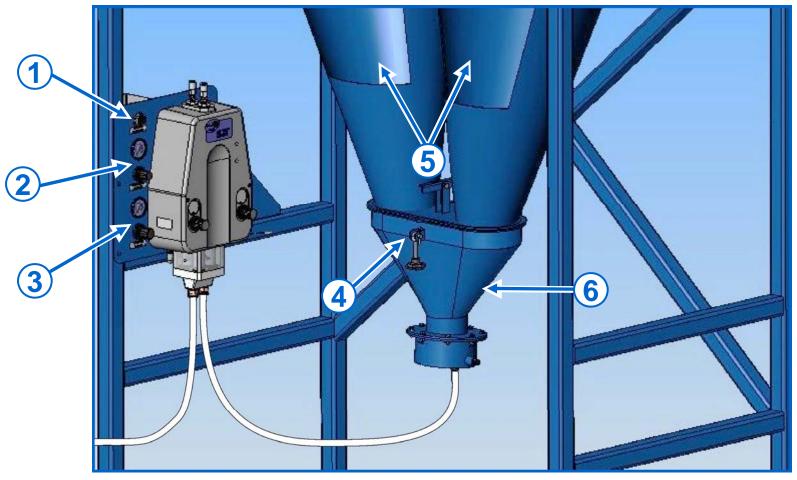


Remove the reclaim and bulk feed transfer hoses from the purge duct. Connect the hoses to the sieve deck. Systems with
Alternate Color
Hose Sets:
Connect the
alternate reclaim
transfer hose to the
cover in place of the
previous color hose.



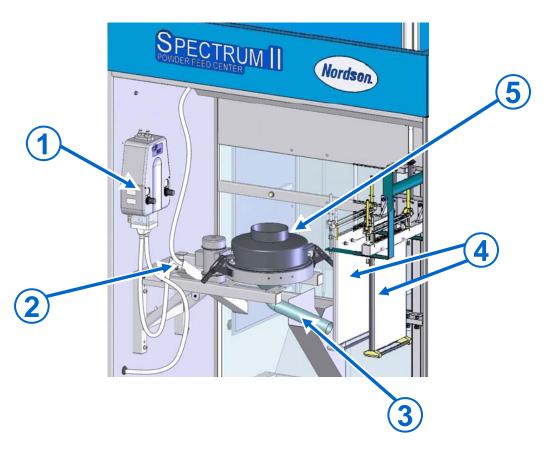
Install a new powder feed source and connect fluidizing air tubing.

Cyclone Components



- 1. MANUAL PURGE button
- 2. Reclaim pump supply air regulator/gauge
- 3. Transfer pan fluidizing air regulator/gauge
- 4. Transfer pan latch
- 5. Cyclone access doors
- 6. Transfer pan

Feed Center Components



- Bulk feed HDLV pump (optional)
- 2. Purge duct
- 3. Sieve Pan/Chute
- 4. Lance assemblies
- Sieve deck(Sieve screen inside)



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