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.
Procedure 1

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.
Procedure 2

1. Main Menu
2. Auto Menu
3. Color Change
   Lance/Purge Mode
   DISABLE SIEVE

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Procedure 2

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.
Procedure 3

OPERATOR B

1. Color Change
   Lance/Purge Mode
   ENABLE SIEVE

2. Color Change
   BLOWOFF
   START

3. Color Change
   Allow VIRGIN Pump Purge?
   YES

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

NOTE: Touching YES restarts the virgin powder pump so that it can be purged.
Procedure 3

**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.

COLOR CHANGE CYCLE DONE
Light flashes when gun blowoff is complete.
**Procedure 4**

**OPERATOR B**

1. **Color Change**
   - **GUN PURGE**
     - **START**

   ![Color Change Icon](image)

   **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.

   ![Color Change Cycle Done](image)

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

3. **Blow off lances and feed center until clean.**

   ![Blow off Lance](image)
Procedure 5

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.

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Procedure 5

OPERATOR B

4

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.

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.
Procedure 6

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.

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Procedure 7

**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.

4. Set AeroDecks™ in operating position and exit booth.

*For Hard-to-Clean Powders:* Use damp cotton towels to wipe down the booth walls, sloped surfaces, floor, inlet duct, and vertical duct.
Procedure 8

1. Color Change
   PUMP PURGE
   START
   x2

   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.
Procedure 8

OPERATOR A

4

For Hard-to-Clean Powders Only:
With a damp cotton towel, wipe all surfaces inside the cyclone and transfer pan.

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

5

Close and latch the cyclone access doors.
Procedure 8

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.
Procedure 9

1. Color Change
   - Enable Sieve

2. Color Change
   - Auto Menu

3. Auto Menu
   - Press to Finish

4. Auto Menu
   - Enable Powder Transfer
Procedure 9

OPERATOR B

AUTO MENU SELECTIONS
Specify how the system will operate for this color run.

- Select Box
- Select Hopper

Starts fluidizing air and lowers lance assembly to appropriate level.

- Enable Reclaim Transfer
  - Spray-to-Reclaim: Select this button. Oversprayed powder will be reclaimed.
  - Spray-to-Waste: Do not select this button. Oversprayed powder will be scrapped.

- Enable Virgin Powder
  - Turns on HDLV bulk feed system.

- Enable Vibra-sonic
  - Turns on Vibra-sonic sieve screen.

NOTE: Spray 0.5 kg (1 lb.) of powder to waste before performing Procedure 10. Amount of time required may vary.

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Procedure 10

1. **Spray to Reclaim Systems:**
   - Remove the reclaim and bulk feed transfer hoses from the purge duct. Connect the hoses to the sieve deck.

2. **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

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