

This is a new option







- □ The components will be explained in more detail during this presentation.
- □ 1. Transport Motor
- 2. Proof Tray Exit Motor
- □ 3. Proof Tray JG Motor
- 4. Entrance Motor
- □ 5. Shift Tray JG Motor
- □ 6. Front, Rear Jogger Fence Motors x2
- 7. Main Jogger Fence Retraction Motor
- 3. Tray Lift Motor
- 9. Shift Exit Motor
- □ 10. Shift Motor
- □ 11. Sub Jogger Motor
- □ 12. LE Stopper Motor



- □ The components will be explained in more detail during this presentation.
- 1. Entrance Sensor
- 2. Proof Tray Exit Sensor
- 3. Proof Tray Full Sensor
- 4. Transport Sensor
- 5. Exit Sensor
- 6. Shift Tray Exit Sensor
- 7. Tray High Limit Switch
- □ 8. Paper Height Sensor
- 9. Shift Tray Paper Sensor
- □ 10. Tray Guard Sensors 1, 2
- □ 11. Sub Jogger Fence HP Sensor
- □ 12. Tray Full Sensor 1 25%
- □ 13. Tray Full Sensor 2 50%
- □ 14. Tray Full Sensor 3 75%
- □ 15. Tray Full Sensor 4 100 %
- 16. Tray Lower Limit Sensor
- □ 17. Tray Lower Limit Switch



- □ The components will be explained in more detail during this presentation.
- □ 1. Tray Lift Motor
- 2. Main Board
- 3. Cart Set Sensor
- 4. Front Door Lock Solenoid
- 🗖 5. PSU
- □ 6. Tray Low Limit Switch
- □ 7. Tray Low Limit Sensor
- □ 8. Tray Full Sensor 4 100%
- 9. Front Door Switch
- □ 10. Tray Full Sensor 3 75%
- □ 11. Tray Full Sensor 2 50%
- 12. Top Door Switch
- □ 13. Tray Full Sensor 1 25%
- □ 14. Operation Panel PCB



- □ The components will be explained in more detail during this presentation.
- **1**. Fan 1, 2, 3 Motors
- 2. Shift Tray Exit Sensor
- □ 3. Tray High Limit Switch
- □ 4. Paper Height Sensor
- □ 5. Shift Tray JG Motor
- 6. Shift Motor
- □ 7. Shift Roller HP Sensor
- □ 8. Proof Tray JG Motor
- 9. Proof Tray Exit Sensor
- 10. Proof Tray Full Sensor
- □ 11. Transport Sensor
- □ 12. Exit Sensor



- □ The components will be explained in more detail during this presentation.
- 1. Main Jogger Rear Fence Motor
- 2. Rear Fence HP Sensor
- 3. Shift Tray Paper Sensor
- 4. Main Jogger Front Fence Motor
- □ 5. Front Fence HP Sensor
- □ 6. Main Jogger Fence Retraction HP Sensor
- 7. Main Jogger Fence Retraction Motor
- □ 8. Tray Guard Sensor 1
- □ 9. Sub Jogger Fence Motor
- 10. LE Stopper HP Sensor
- □ 11. LE Stopper Motor
- □ 12. Sub Jogger Fence HP Sensor
- 13. Tray Guard Sensor 2













No additional notes











- □ The sequence alternates between the red arrow path and the blue arrow path until the last set has fed to the shift tray.
- □ The amount of shift from the center is fixed at 10 mm. (This cannot be adjusted.)



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□ The sub jogger does not have this mechanism.



### The procedure is as follows:

- The shift motor switches on and off, moving the shift rollers and each sheet 10 mm to the rear.
- □ The leading edge of each shifted sheet output to the shift tray is jogged by the leading edge stopper (1).
- □ The main jogger rear and front jogger fence motors switch on and push the rear and front fences against the shifted edge of the stack at (2) and (3).
  - The front fence moves on top of the stack below. The front fence is light, so it does not interfere with the top sheet of the stack below.
- After the last sheet of the set has fed and been aligned, the main jogger retraction motor raises both fences and positions them at the front for the next set.

### This sequence continues until the last sheet of the set has fed.



### The procedure is as follows:

- The shift motor switches on and off, moving the shift rollers and each sheet 10 mm to the front.
- □ The leading edge of each shifted sheet output to the shift tray is jogged by the leading edge stopper (4).
- □ The main jogger front fence and rear fence motors switch on and push the front and rear fence against the edges of the stack at at (5) and (6).
  - The rear fence moves on top of the stack below. The rear fence is light, so it does not interfere with the top sheet of the stack below.
- After the last sheet of the set has fed and been aligned, the main jogger retraction motor raises both fences and positions them at the rear for the next set.
- □ At the end of the job, the rear and front fence motors reverse and move the rear and front fences back to the home position and stop.

### This sequence continues until the last sheet of the set has fed.

# If there are more than 2 sets, the procedures for set 1 and set 2 are done alternately.



### The procedure is as follows:

- □ The set (red in the diagram) is output to the center of the shift tray.
- □ The LE stopper (1) jogs the leading edge of the stack.
- □ The front and rear jogger fences (2) align the front and rear of the trailing edge.
  - > This is the same operation as for smaller paper sizes.
- □ The sub jogger fence motor switches on and moves its front and rear fence. Only the rear fence (3) touches the rear corner of the stack near the LE stopper.
  - The front fence (4) also moves but does not touch the front edge of the stack. (There is only one sub jogger motor, so both sub jogger fences move.)



### The procedure is as follows:

- □ The set (blue in the diagram) is shifted and output to the tray..
- □ The LE stopper (5) jogs the leading edge of the stack.
- □ The main jogger fences (6) (7) align the paper at the front and rear of the trailing edge.
  - > This is the same operation as for smaller paper sizes.
- The sub jogger fence motor switches on and moves both the front and rear fence.
  - Only the front fence (7) touches the front corner of the stack near the LE stopper. The rear fence (8) also moves but does not touch the rear edge of the stack. (There is only one sub jogger motor, so both sub jogger fences move.)







### D447 Stacker Training













These sensors are also fail safe mechanisms. If the stack on the tray skews and either the paper height sensor or tray high limit switch fail to detect the top of the stack, one of the guard sensors will trigger a signal to shut down the stacker. This prevents the top of the stack (or empty tray) from striking the bottom of the paper transport plates above and causing damage.

### D447 Stacker Training





### D447 Stacker Training





### **Operation After Power is Turned On** □ If there is no paper on the tray: • The shift tray paper sensor detects no paper. The tray lift motor raises the tray until the paper height sensor is pushed up far enough to detect the top of the tray. The tray lift motor reverses and lowers the tray to the start position. □ If there is paper on the tray: The shift tray paper sensor detects paper. • The tray lift motor raises the tray until the paper height sensor detects the top of the tray. The tray lift motor reverses and lowers the tray far enough to accept more paper. Slide 35 No additional notes











D447 service manual, Replacement and Adjustment, Shift Tray Lift Control, Tray Lift Motor



D447 service manual, Replacement and Adjustment, Shift Tray,Shift Tray Position Adjustment