

# DADF Drive Motors - Document Handling Module

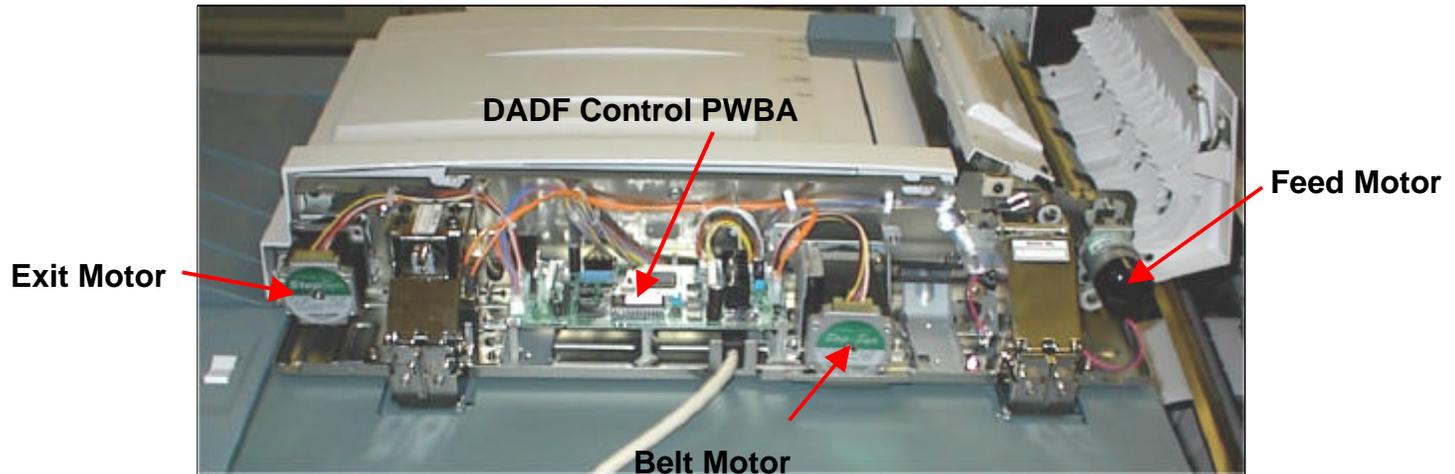
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## DADF Drive Motors

The DADF has three motors the Feed Motor, the Belt Motor and the Exit Motor

The Feed Motor is controlled by the DADF Control PWB and turns the Nudger and Feed Rolls. The Nudger Rolls feeds the top document sheet into the nip of the Feed and Retard Roll. The Feed Roll turns against the Retard Roll, which drags against the sheets below the top sheet and prevents prevent multiple sheet feeds.

The Feed Motor is energized 200 msec. after the user presses the Start Button. The Feed Roll takes the top document in the stack and transports it into the nip of the stationary Registration Rolls. The Feed Motor deenergizes 50 msec. after the trailing edge of the document passes the Registration Sensor.

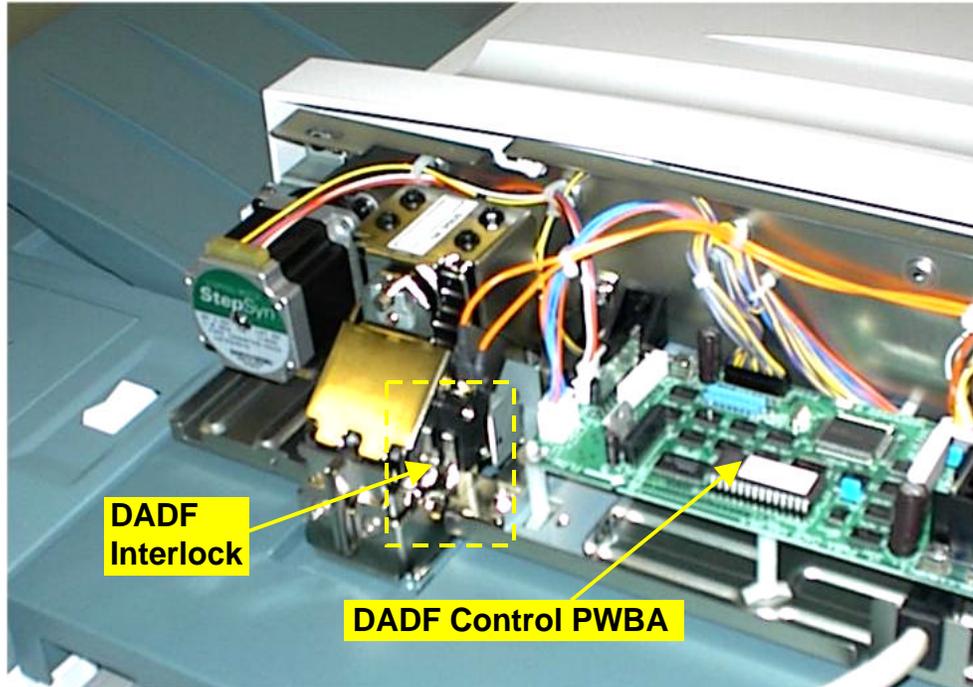


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## DADF Drive Motors (continued)

The DADF Control PWBA does not energize the DADF Feed Motor unless the DADF Interlock is closed by lowering the DADF onto the Platen Glass and two Top Cover Interlocks are closed by closing the top cover.



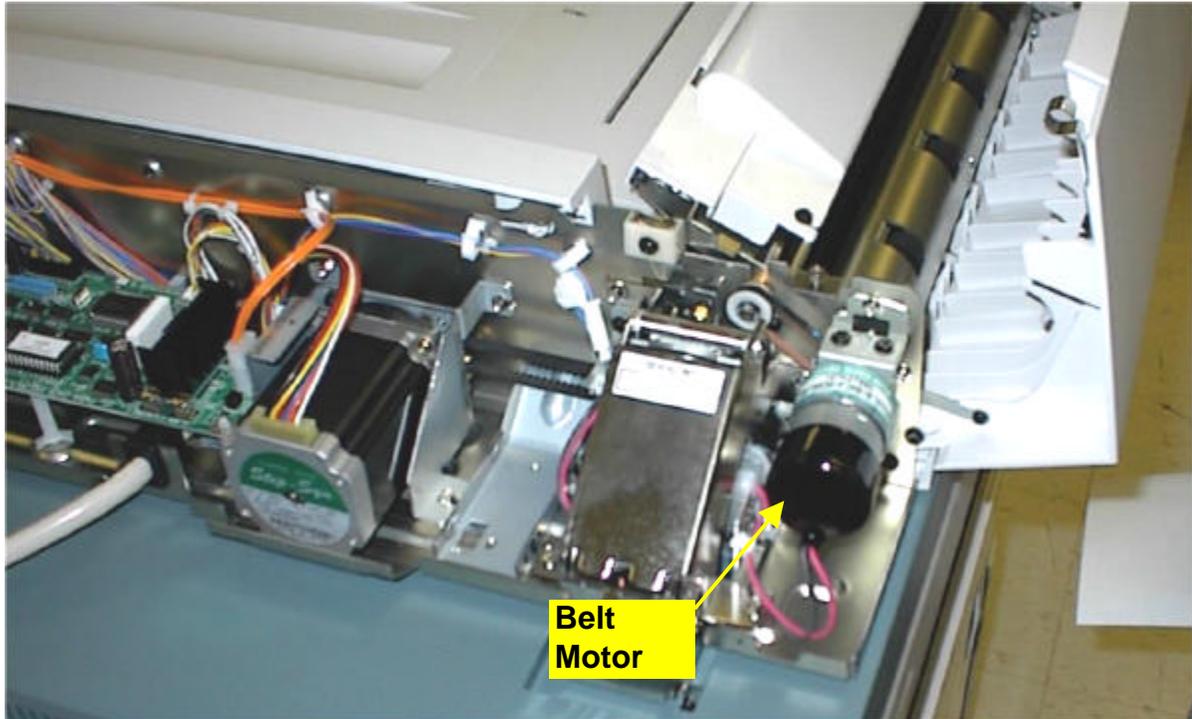
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## DADF Drive Motors (continued)

### DADF Belt Motor

The DADF Belt Motor is a +24 VDC, bidirectional stepper motor. This motor drives the Registration Roll, Belt Roll and the Lower and Upper Duplex Roll.

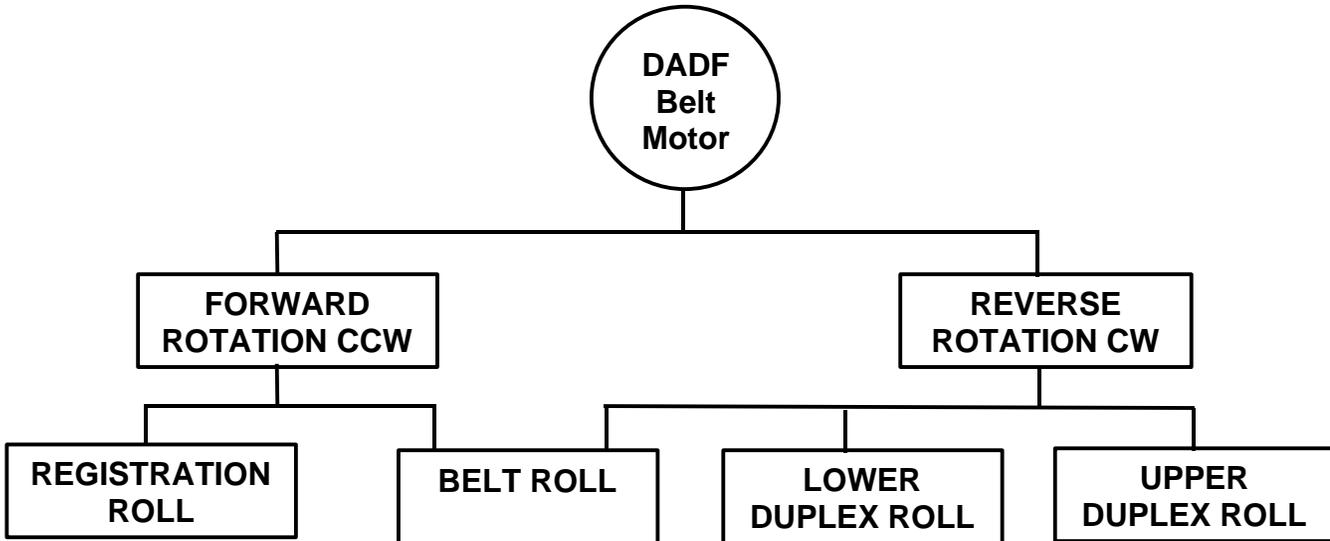


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## DADF Drive Motors (continued)

The DADF Belt Motor operates in the forward direction when moving documents from the Input Tray to the Platen Glass, and when moving documents from the Platen Glass to the Output Tray. See diagram below for the components driven by the Belt Motor.



The Belt Motor moves in the reverse direction to turn over the document for scanning the second side, and for re-inverting the document for correct order stacking in the Output Tray. Refer to Document Inverting for more information on this function.

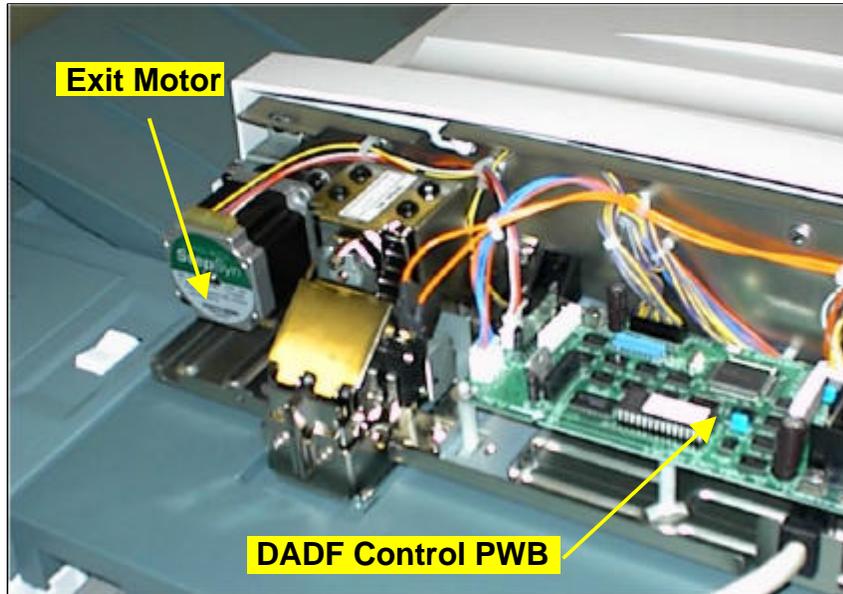
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## DADF Drive Motors (continued)

### Exit Motor

The Exit Motor is a +24 VDC stepper motor that drives the Exit Roll. The Exit Motor is energized when each document has been scanned and the document is not being routed through the invert path. Its run duration depends on the document run length dimension. The DADF Control PWB provides drive to the Exit Motor in intermittent pulses. This technique is used to help conserve energy consumption in the machine. An Exit Sensor senses the document trailing edge and this signal is sent to the DADF Control PWB. This signal deenergizes the Exit Motor.



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### DADF Drive Motors (continued)

#### DADF Motor Speeds Table

<b>Motor</b>	<b>Rolls</b>	<b>Transport Speed (Forward - ccw)</b>	<b>Transport Speed (Reverse - cw)</b>
<b>Feed Motor</b> + 24 VDC	Nudger Roll (cw)	223.9 mm/sec	
	Feed Roll (cw)	268.7 mm/sec	
<b>Belt Drive Motor</b> +24 VDC Stepper Bi-directional	Registration Rolls	810.6 mm/sec	
	Belt Drive Rolls	806.0 mm/sec	873.7 mm/sec
	Lower Duplex Roll		671.7 mm/sec 873.7 mm/sec when re- inverting for exit stacking only
	Upper Duplex Rolls		671.7 mm/sec 873.7 mm/sec when re- inverting for exit stacking only
<b>Exit Motor</b> +24 VDC Stepper	Exit Rolls	840.2 mm/sec	