



D197/D198/D199/D200/D201/D202 Harness Pin Assignment (Mainframe)

Harness Information				From/To Information					Note			
Part Number	Start	End	Color	From	Pin No.	Logical Signal Name	I/O	To		Signal Name		
D2025301 D2025313 (Mainframe)	CN116	- 1	CN1 - 3	Yellow	BCU	CN116	1	EEXCLFN_OUT1	-	Paper Exit Cooling Fan	Paper Exit Cooling Fan: ON	
		- 2	- 2			2	EEXCLFN_LOK	<<<		Paper Exit Cooling Fan: Lock		
		- 3	- 1			3	GND	G		GND		
		- 4	CN2 - 3			4	NTBCLFN_OUT1	-	Development Bearing Cooling Fan	Development Bearing Cooling Fan: ON		
		- 5	- 2			5	NTBCLFN_LOK	<<<		Development Bearing Cooling Fan: Lock		
		- 6	- 1			6	GND	G		GND		
		- 7	-			7	N.C.	N	N.C.	N.C.		
		- 8	-			8	N.C.	N	N.C.	N.C.		
		- 9	-			9	N.C.	N	N.C.	N.C.		
		- 10	-			10	N.C.	N	N.C.	N.C.		
		- 11	-			11	N.C.	N	N.C.	N.C.		
		- 12	-			12	N.C.	N	N.C.	N.C.		
		- 13	CN4 - 3	Yellow		13	GND	G	Transfer Contact Sensor	GND		
		- 14	- 2			14	TTSCASN_SNS	<<<		Transfer Contact sensor		
		- 15	- 1			15	+5V	P		+5V		
		- 16	CN5 - 3			16	GND	G	D2025306 (Mainframe)	GND		
		- 17	- 2			17	LWBNFSN_SNS	<<<	Terminal: Toner Collection Full Sensor	Toner Collection Full Sensor		
		- 18	- 1			18	+5V	P		+5V		
		CN117	- A1	CN6 - 2			CN117	A1	LWSOCSL_OUT1	-	Recycling Shutter Solenoid	Recycling Shutter Solenoid: OUT/1
			- A2	- 1			A2	LWSOCSL_OUT2	-		Recycling Shutter Solenoid: OUT/2	
			- A3	CN7 - 2			A3	TTSCASN_OUT1	-	Transfer Roller Contact Motor	Transfer Roller Contact Motor: OUT/1	
			- A4	- 1			A4	TTSCASN_OUT2	-		Transfer Roller Contact Motor: OUT/2	
		- A5	CN8 - 10		A5	PDR_MT_GA	-	Drum/Waste Toner Motor	Drum/Waste Toner Motor: SW Gain			
		- A6	- 9		A6	PDR_MT_CLK	-		Drum/Waste Toner Motor: Clock			
		- A7	- 8		A7	PDR_MT_BRK_N	-		Drum/Waste Toner Motor: Brake			
		- A8	- 7		A8	PDR_MT_CW	-		Drum/Waste Toner Motor: Rotating Direction			
		- A9	- 6		A9	PDR_MT_STA_N	-		Drum/Waste Toner Motor: Start			
		- A10	- 5		A10	PDR_MT_LOK_N	<<<		Drum/Waste Toner Motor: Lock			
		- A11	- 4		A11	GND	G		GND			
		- A12	- 3		A12	GND	G		GND			
		- A13	- 2		A13	+24VS	P		+24VS			
		- A14	- 1		A14	+24VS	P		+24VS			
		- B1	CN9 - 10		B1	ODV_MT_GA	-	Development Motor	Development Motor: SW Gain			
		- B2	- 9		B2	ODV_MT_CLK	-		Development Motor: Clock			
		- B3	- 8		B3	ODV_MT_BRK_N	-		Development Motor: Brake			
		- B4	- 7		B4	ODV_MT_CW	-		Development Motor: Rotating Direction			
		- B5	- 6		B5	ODV_MT_STA_N	-		Development Motor: Start			
		- B6	- 5		B6	ODV_MT_LOK_N	<<<		Development Motor: Lock			
		- B7	- 4		B7	GND	G		GND			
		- B8	- 3		B8	GND	G		GND			
		- B9	- 2		B9	+24VS	P		+24VS			
		- B10	- 1		B10	+24VS	P		+24VS			
		- B11	CN10 - 2		B11	PHRDQLE_LED-K	-	D202530 7(Mainframe)	Quenching Lamp: OUT			
		- B12	- 1		B12	+24VS	P	Terminal: Quenching Lamp	+24VS			
		- B13	-		B13	N.C.	N	N.C.	N.C.			
		- B14	-		B14	N.C.	N	N.C.	N.C.			
	CN118	- 1	CN11 - 6	Yellow	CN118	1	GND	G	TD Sensor	GND		
		- 2	- 5		2	NTNODSN_VOUT	<<<		TD Sensor: Clock IN			
		- 3	- 4		3	+3.3V_ID	P		TD Sensor: 3.3V			
		- 4	- 3		4	NTNODSN_VTCNT	-		TD Sensor: TD Sensor: SEL			
		- 5	- 2		5	NTNODSN_SDA	<->		TD Sensor: SDA			
		- 6	- 1		6	NTNODSN_SCL	-		TD Sensor: SCL			
		- 7	CN12 - 4		7	TTS_TH_TH	<<<	Temperature/Humidity Sensor	Temperature Sensor			
		- 8	- 3		8	GND	G		GND			
		- 9	- 2		9	TTS_TH_RHV	<<<		Hudmidty Sensor			
		- 10	- 1		10	+3.3V	P		+3.3V			
		- 11	CN13 - 2		11	GND	G	Temperature Sensor	GND			
		- 12	- 1		12	MMI_TS_SN+	<<<		Temperature Sensor			
	CN134	- 1	CN14 - 6	Purple	CN134	1	C1TRVSN_SNS	-	1 Bin Tray	1BIN: Reverse		
		- 2	- 5		2	C1TPQSN_SNS	<<<		1BIN: Paper Remaining Detection			
		- 3	- 4		3	C1T_SS_SET	<<<		1BIN: Set Detection			
		- 4	- 3		4	GND	G		GND			
		- 5	- 2		5	+5VE_LPS	P		+5VE_LPS			
		- 6	- 1		6	+5V	P		+5V			
	CN16	- 1	CN15 - 2		1 Bin Tray	CN204	1	CATHODE	<<<	1 Bin Tray LED: CATHODE		
		- 2	- 1		2	ANODE	-		1 Bin Tray LED: ANODE			
	CN139	- 1	CN17 - 10		BCU	CN139	1	GND	G	Bridge Unit / Shift Tray / Paper Exit Tray		
		- 2	- 9		2	+5V	P		+5V			
		- 3	- 8		3	CBU_SS_SET1	<<<		<Bridge Unit> Option Set Detection:1			
		- 4	- 7		4	CBUCVSN_SNS	<<<		<Shift Tray> Set Detection			
		- 5	- 6		5	CBUEPSN_SNS	<<<		<Paper Exit Tray> Paper Exit Tray Set Detection:1			
		- 6	- 5		6	CBUCVMT_RST	-		<Bridge Unit> Relay Transport Sensor			
		- 7	- 4		7	CBUCVMT_CTL	-		<Shift Tray> HP Sensor			
		- 8	- 3		8	GND	G		<Paper Exit Tray> Paper Exit Tray Set Detection			
		- 9	- 2		9	+24V	P		<Bridge Unit> Relay Exit Sensor			
		- 10	- 1		10	N.C.	N	N.C.	<Paper Exit Tray> Upper Exit Sensor			
		- 11	-		11	N.C.	N	N.C.	<Bridge Unit> Relay Transport Motor: Reset			
		- 12	CN18 - 9	Purple	12	+24V	P	Bridge Unit / Paper Exit Tray	<Shift Tray> Lift Motor: OUT/2			
		- 13	- 8		13	CBU+5VFU	<<<		<Paper Exit Tray> Transport Motor: Reset			
		- 14	- 7		14	CBUCVMT_ENA	-		<Bridge Unit> Relay Transport Motor: SW Current			
		- 15	- 6		15	CBU_SS_SET2	<<<		<Shift Tray> Lift Motor: OUT/1			
		- 16	- 5		16	CBUDVSL_OUT2	-		<Paper Exit Tray>Transport Motor: SW Current			
		- 17	- 4		17	CBUCVMT_CLK	-		GND			
		- 18	- 3		18	CBU+24VFU	<<<		+24V			
		- 19	- 2		19	CBTOCSN_SNS	<<<		N.C.			
		- 20	- 1		20	CBEOCSN_SNS	<<<		N.C.			
		- 21	-		21	N.C.	N	N.C.	N.C.			
		- 22	-		22	N.C.	N	N.C.	N.C.			

D197/D198/D199/D200/D201/D202 Harness Pin Assignment (Mainframe)

Harness Information				From/To Information					Note
Part Number	Start	End	Color	From	Pin No.	Logical Signal Name	I/O	To	
D2025301 D2025313 (Mainframe)	CN540 - 1	CN19 - 2	Yellow	IPU	CN541	1 ACSW_STAT_ON_N (PW_BTN_N)	<<<	Main Power Switch (DC Switch)	Main Power DC Push SW Status Monitoring
	- 2	- 1				2 GND	G		GND
	- 3	- 4		BCU	CN145	1 N.C.	N	N.C.	N.C.
	CN145 - 1	- 3	Yellow			2 +3.3V	P	Fusing Roller Temperature Sensor (End)	+3.3V
	- 2	- 2				3 GND	G		GND
	- 3	- 1				3 FFR_TSEG_SN-O	<<<		Fusing Roller Temperature Sensor (End)
	- 4	- 4				4 +3.3V	P	Fusing Roller Temperature Sensor (Center)	+3.3V
	CN145 - 4	- 3	Yellow			5 GND	G		GND
	- 5	- 2				6 FFR_TSCT_SN-O	<<<		Fusing Roller Temperature Sensor (Center)
	- 6	- 1				1 +24V_LPS	P	PCL (Pre Cleaning Light)	PCL (Pre Cleaning Light): +24V
CN141 - 1	CN22 - 3	Yellow		CN141	1 N.C.	N		N.C.	
- 2	- 2				2 MPT_LED_LED1	-		PCL (Pre Cleaning Light): Cathode	
CN141 - 2	- 1	Yellow			1 NTBDRMT_A	-	Toner Supply Motor	Phase A	
CN127 - 1	CN1 - 4	Yellow		CN127	2 NTBDRMT_XA	-		Phase XA	
- 2	- 3				3 NTBDRMT_B	-		Phase B	
- 3	- 2				4 NTBDRMT_XB	-		Phase XB	
- 4	- 1				1 +24VS	P	IPU	24VS	
D2025303 (Mainframe)	CN107 - 1	CN528 - 20	Yellow		CN107	2 GND	G		GND
	- 2	- 19				3 GND	G		GND
	- 3	- 18				4 +24V	P		24V
	- 4	- 17				5 GND	G		GND
	- 5	- 16				6 +5VE_LPS	P		5VE_LPS
	- 6	- 15				7 +5V	P		5V
	- 7	- 14				8 ADF_TXD_O	-		ADF TX
	- 8	- 13				9 ADF_RXD_I	<<<		ADF RX
	- 9	- 12				10 TIMER_UP_N0_I	<<<		Time: Eg. Off 0
	- 10	- 11				11 TIMER_UP_N1_I	<<<		Time: Eg. Off 1
	- 11	- 10				12 TIMER_UP_N2_I	<<<		Time: Eg. Off 2
	- 12	- 9				13 FLUKI_I	<<<		E.Save Recovery Signal
	- 13	- 8				14 ENGENABLE_N_I	<<<		L: Normal Launch H: Rapi Open Wait
	- 14	- 7				15 PONENG_N_I	<<<		E.Save Recovery Signal
	- 15	- 6				16 GAVD_SYCS_N_O	-		GAVD Sync Serial Chip Selection
	- 16	- 5				17 GMAC_SYCS_N_O	-		GMAC Sync Serial Chip Selection
	- 17	- 4				18 SYCLK_O	-		GAVD Sync Serial Clock
	- 18	- 3				19 SYDO_O	-		GAVD Sync Serial TX
	- 19	- 2				20 SYDI_I	<<<		GAVD Sync Serial RX
	- 20	- 1				1 PWM_D	-	HVP	HVP/Separation DC(-): PWM
D2025304 (Mainframe)	CN128 - 1	CN1 - 12	Yellow	BCU	CN128	2 ERR_D	<<<		HVP/Separation DC(-): Fault Detection
	- 2	- 11				3 FB_T+	<<<		HVP/Transfer DC(+): Voltage FB
	- 3	- 10				4 PWM_T-	-		HVP/Transfer DC(-): PWM
	- 4	- 9				5 PWM_T+	-		HVP/Transfer DC(+): PWM
	- 5	- 8				6 PWM_B	-		HVP/Development DC(-): PWM
	- 6	- 7				7 PWM_C	-		HVP/Charge DC(-): PWM
	- 7	- 6				8 ERR_T	<<<		HVP/Transfer DC(+)&(-): Fault Detection
	- 8	- 5				9 ERR_B	<<<		HVP/Development DC(-): Fault Detection
	- 9	- 4				10 ERR_C	<<<		HVP/Charge DC(-): Fault Detection
	- 10	- 3				11 GND	G		GND
	- 11	- 2				12 +24VS	P		+24VS
	- 12	- 1				1 CBANK_RXD	<<<	Paper Bank	Paper Bank: UART RX
D2025305 (Mainframe)	CN135 - 1	- 8	Purple	BCU	CN135	2 CBANK_TXD	G		Paper Bank: UART TX
	- 2	- 6				3 GND	G		GND
	- 3	- 5				4 GND	G		GND
	- 4	- 4				5 +5V	P		+5V
	- 5	- 3				6 +5V	P		+5V
	- 6	- 2				7 GND	G		GND
	- 7	- 1				8 GND	G		GND
	- 8	CN2 - 7				9 GND	G		GND
	- 9	- 6				10 GND	G		GND
	- 10	- 5				11 +24V	P		+24V
	- 11	- 4				12 +24V	P		+24V
	- 12	- 3				13 +24V	P		+24V
	- 13	- 2				14 +24V	P		+24V
	- 14	- 1				1 EFIN_RXD	<<<	Finisher	Finisher: UART RX
	CN137 - 1	- 7	Purple		CN137	2 EFIN_TXD	-	Finisher	Finisher: UART TX
	- 2	- 6				3 GND	G	Finisher	GND
	- 3	- 5	Purple			4 GND	G		GND
	- 4	- 4				5 GND	G		GND
	- 5	- 3				6 GND	G		GND
	- 6	- 2	Purple			7 GND	G		GND
	- 7	- 1				8 GND	G		GND
	- 8	CN4 - 9				9 +24V	P		+24V
	- 9	- 8				10 +24V	P		+24V
	- 10	- 7				11 +24V	P		+24V
- 11	- 6				12 +24V	P		+24V	
- 12	- 5				1 GND	G		GND	
- 13	- 4				2 LWBNSNS_SNS	<<<	Toner Collection Full Sensor	Toner Collection Full Sensor	
D2025306 (Mainframe)	CN5 - 1	CN1 - 3	Purple	D2025301	CN5	3 +5V	P		+5V
- 2	- 2				1 PHRDQLE_LED-K	-	Quenching Lamp	Quenching Lamp: OUT	
- 3	- 1				2 +24VS	P		+24VS	
D2025307 (Mainframe)	CN10 - 1	CN1 - 2	Purple	D2025301	CN10	1 FFU_MT_GA	-	D19x: Fusing/Paper Exit Motor D20x: Fusing Motor	D19x: Fusing/Paper Exit Motor: SW Gain D20x: Fusing Motor: SW Gain
- 2	- 1				2 FFU_MT_CLK	-		D19x: Fusing/Paper Exit Motor: Clock D20x: Fusing Motor: Clock	
D2025320 for D20x D1995320 for D19x (Mainframe)	CN114 - 1	CN1 - 10	Yellow	BCU	CN114	3 FFU_MT_BRK_N	-		D19x: Fusing/Paper Exit Motor: Brake D20x: Fusing Motor: Brake
- 2	- 9				4 FFU_MT_CW	-		D19x: Fusing/Paper Exit Motor: Rotating Direction D20x: Fusing Motor: Rotating Direction	
- 3	- 8				5 FFU_MT_STA_N	-		D19x: Fusing/Paper Exit Motor: Start D20x: Fusing Motor: Start	
- 4	- 7				6 FFU_MT_LOK_N	<<<		D19x: Fusing/Paper Exit Motor: Lock D20x: Fusing Motor: Lock	
- 5	- 6				7 GND	G		GND	
- 6	- 5				8 GND	G		GND	
- 7	- 4				9 +24VS	P		+24VS	
- 8	- 3				10 +24VS	P		+24VS	
- 9	- 2								
- 10	- 1								

D197/D198/D199/D200/D201/D202 Harness Pin Assignment (Mainframe)

Harness Information				From/To Information					Note				
Part Number	Start	End	Color	From	Pin No.	Logical Signal Name	I/O	To		Signal Name			
D2025320 for D20x D1995320 for D19x (Mainframe)	CN113	- A1	CN2 - 8	BCU	CN113	A1	CRG_MT_ENC-A	<<<	Registration Motor	Registration Motor: Encoder A	D20x models only		
		- A2	- 7		A2	CRG_MT_ENC-B	<<<		Registration Motor: Encoder B				
		- A3	- 6		A3	+5V	P		+5V				
		- A4	- 5		A4	CRG_MT_CW	-		Registration Motor: Rotating Direction				
		- A5	- 4		A5	CRG_MT_PWM	-		Registration Motor: Clock				
		- A6	- 3		A6	CRG_MT_BRK_N	-		Registration Motor: Brake				
		- A7	- 2		A7	GND	G		GND				
		- A8	- 1		A8	+24VS	P		+24VS				
		- A9	CN6 - 8		A9	EEX_MT_ENC-A	<<<		Paper Exit Motor	D20x: Paper Exit Motor: Encoder A			
		- A10	- 7		A10	EEX_MT_ENC-B	<<<		D20x: Paper Exit Motor: Encoder B				
		- A11	- 6		A11	+5V	P		+5V				
		- A12	- 5		A12	EEX_MT_CW	-		D20x: Paper Exit Motor: Rotating Direction				
		- A13	- 4		A13	EEX_MT_PWM	-		D20x: Paper Exit Motor: Clock				
		- A14	- 3		A14	EEX_MT_BRK_N	-		D20x: Paper Exit Motor: Brake				
		- A15	- 2		A15	GND	G		GND				
		- A16	- 1		A16	+24VS	P		+24VS				
		- A17	-		A17	N.C.	N	N.C.	N.C.				
		- B1	-		B1	N.C.	N	N.C.	N.C.				
		- B2	CN3 - 8		Yellow	B2	CFDFEMT_ENC-A	<<<		Paper Feed Motor		Paper Feed Motor: Encoder A	
		- B3	- 7		B3	CFDFEMT_ENC-B	<<<		Paper Feed Motor: Encoder B				
		- B4	- 6		B4	+5V	P		+5V				
		- B5	- 5		B5	CFDFEMT_CW	-		Paper Feed Motor: Rotating Direction				
		- B6	- 4		B6	CFDFEMT_PWM	-		Paper Feed Motor: Clock				
		- B7	- 3		B7	CFDFEMT_BRK_N	-		Paper Feed Motor: Brake				
		- B8	- 2		B8	GND	G		GND				
		- B9	- 1		B9	+24VS	P		+24VS				
		- B10	CN4 - 8		B10	CFDPPFMT_ENC-A	<<<		Vertical Transport Motor	Vertical Transport Motor: Encoder A			
		- B11	- 7		B11	CFDPPFMT_ENC-B	<<<		Vertical Transport Motor: Encoder B				
		- B12	- 6		B12	+5V	P		+5V				
		- B13	- 5		B13	CFDPPFMT_CW	-		Vertical Transport Motor: Rotating Direction				
		- B14	- 4		B14	CFDPPFMT_PWM	-		Vertical Transport Motor: Clock				
		- B15	- 3		B15	CFDPPFMT_BRK_N	-		Vertical Transport Motor: Brake				
		- B16	- 2		B16	GND	G		GND				
		- B17	- 1		B17	+24VS	P		+24VS				
	CN129	- 1	CN5 - 3	CN129	1	FFUSFFN_OUT1	-	Fusing Fan	Fusing Fan: ON				
	- 2	- 2	2	FFUSFFN_LOK	<<<		Fusing Fan: Lock						
	- 3	- 1	3	GND	G		GND						
D2025321 for 200V & D20x  D1995321 for 200V & D19x  (Mainframe)	CN110	- 1	CN1 - 14	Purple	CN110	1	+24VS	P	D1492708 (1st Paper Feed Unit)	+24VS	From: BCU(CN110) - D2025321/D1995321(Mainframe) - D2022708 (1st Paper Feed Unit) - Terminal: Electrical Components		
		- 2	- 13	2	CF1PUSL_OUT2	-			Pick-up Solenoid *Japan Only				
		- 3	- 12	3	GND	G		Terminal:	GND				
		- 4	- 11	4	CF1SN_SNS	<<<		*1st Paper Feed Sensor	1st Paper Feed Sensor				
		- 5	- 10	5	+5V	P		*1st Paper End Sensor	+5V				
		- 6	- 9	6	GND	G		*1st Paper Feed Tray Limit Sensor	GND				
		- 7	- 8	7	CH1SN_SNS	<<<		1st Vertical Transport Sensor	1st Vertical Transport Sensor				
		- 8	- 7	8	+5V	P		+5V	+5V				
		- 9	- 6	9	GND	G		GND	GND				
		- 10	- 5	10	CT1PESN_SNS	<<<		1st Paper End Sensor	1st Paper End Sensor				
		- 11	- 4	11	+5V	P		+5V	+5V				
		- 12	- 3	12	GND	G		GND	GND				
		- 13	- 2	13	CT1ULSN_SNS	<<<		1st Paper Feed Tray Limit Sensor	1st Paper Feed Tray Limit Sensor				
		- 14	- 1	14	+5V	P		+5V	+5V				
		- 15	-	15	N.C.	N	N.C.	N.C.	N.C.				
		- 16	-	16	N.C.	N	N.C.	N.C.	N.C.				
		- 17	CN2 - 5	Purple	17	CT1SZSW_SW4	<<<		1st Paper Feed Tray Size Switch	1st Paper Feed Tray Size Switch:4			
		- 18	- 4	18	GND	G		GND	GND				
		- 19	- 3	19	CT1SZSW_SW3	<<<		1st Paper Feed Tray Size Switch:3	1st Paper Feed Tray Size Switch:3				
		- 20	- 2	20	CT1SZSW_SW2	<<<		1st Paper Feed Tray Size Switch:2	1st Paper Feed Tray Size Switch:2				
		- 21	- 1	21	CT1SZSW_SW1	<<<		1st Paper Feed Tray Size Switch:1	1st Paper Feed Tray Size Switch:1				
		- 22	CN3 - 5	22	CT1UPMT_SW2	<<<		1st Paper Feed Tray Lift Motor (Paper Remaining Sensor): 2	1st Paper Feed Tray Lift Motor (Paper Remaining Sensor): 2				
		- 23	- 4	23	GND	G		(Paper Remaining Sensor)	GND				
		- 24	- 3	24	CT1UPMT_SW1	<<<		1st Paper Feed Tray Lift Motor (Paper Remaining Sensor): 1	1st Paper Feed Tray Lift Motor (Paper Remaining Sensor): 1				
		- 25	- 2	25	CT1UPMT_OUT2	-		1st Paper Feed Tray Set Switch	1st Paper Feed Tray Set Switch: OUT/2				
		- 26	- 1	26	CT1UPMT_OUT1	-		1st Paper Feed Tray Set Switch	1st Paper Feed Tray Set Switch: OUT/1				
		- 27	CN4 - 2	27	GND	G		GND	GND				
		- 28	- 1	28	CT1STSW_SW1	<<<		1st Paper Feed Tray Set Switch	1st Paper Feed Tray Set Switch				
		CN111	- 1	CN5 - 14	Purple	CN111	1	+24VS	P	D1492708 (2nd Paper Feed Unit)		+24VS	From: BCU(CN111) - D2025321/D1995321(Mainframe) - D2022708 (2nd Paper Feed Unit) - Terminal: Electrical Components
		- 2	- 13	2	CF2PUSL_OUT2	-			Pick-up Solenoid *Japan Only				
		- 3	- 12	3	GND	G		Terminal:	GND				
		- 4	- 11	4	CF2SN_SNS	<<<		*2nd Paper Feed Sensor	2nd Paper Feed Sensor				
		- 5	- 10	5	+5V	P		*2nd Paper End Sensor	+5V				
		- 6	- 9	6	GND	G		*2nd Paper Feed Tray Limit Sensor	GND				
	- 7	- 8	7	CH2SN_SNS	<<<		2nd Vertical Transport Sensor	2nd Vertical Transport Sensor					
	- 8	- 7	8	+5V	P		+5V	+5V					
	- 9	- 6	9	GND	G		GND	GND					
	- 10	- 5	10	CT2PESN_SNS	<<<		2nd Paper End Sensor	2nd Paper End Sensor					
	- 11	- 4	11	+5V	P		+5V	+5V					
	- 12	- 3	12	GND	G		GND	GND					
	- 13	- 2	13	CT2ULSN_SNS	<<<		2nd Paper Feed Tray Limit Sensor	2nd Paper Feed Tray Limit Sensor					
	- 14	- 1	14	+5V	P		+5V	+5V					
	- 15	-	15	N.C.	N	N.C.	N.C.	N.C.					
	- 16	-	16	N.C.	N	N.C.	N.C.	N.C.					
	- 17	-	17	N.C.	N	N.C.	N.C.	N.C.					
	- 18	-	18	N.C.	N	N.C.	N.C.	N.C.					
	- 19	CN6 - 5	Purple	19	CT2SZSW_SW4	<<<		2nd Paper Feed Tray Size Switch	2nd Paper Feed Tray Size Switch:4				
	- 20	- 4	20	GND	G		GND	GND					
	- 21	- 3	21	CT2SZSW_SW3	<<<		2nd Paper Feed Tray Size Switch:3	2nd Paper Feed Tray Size Switch:3					
	- 22	- 2	22	CT2SZSW_SW2	<<<		2nd Paper Feed Tray Size Switch:2	2nd Paper Feed Tray Size Switch:2					
	- 23	- 1	23	CT2SZSW_SW1	<<<		2nd Paper Feed Tray Size Switch:1	2nd Paper Feed Tray Size Switch:1					
	- 24	CN7 - 5	24	CT2UPMT_SW2	<<<		2nd Paper Feed Tray Lift Motor (Paper Remaining Sensor): 2	2nd Paper Feed Tray Lift Motor (Paper Remaining Sensor): 2					
	- 25	- 4	25	GND	G		(Paper Remaining Sensor)	GND					
	- 26	- 3	26	CT2UPMT_SW1	<<<		2nd Paper Feed Tray Lift Motor (Paper Remaining Sensor): 1	2nd Paper Feed Tray Lift Motor (Paper Remaining Sensor): 1					
	- 27	- 2	27	CT2UPMT_OUT2	-		2nd Paper Feed Tray Lift Motor	2nd Paper Feed Tray Lift Motor: OUT/2					
	- 28	- 1	28	CT2UPMT_OUT1	-		2nd Paper Feed Tray Lift Motor	2nd Paper Feed Tray Lift Motor: OUT/1					
	- 29	CN8 - 2	29	GND	G		GND	GND					
	- 30	- 1	30	CT2STSW_SW1	<<<		2nd Paper Feed Tray Set Switch	2nd Paper Feed Tray Set Switch					

D197/D198/D199/D200/D201/D202 Harness Pin Assignment (Mainframe)

Harness Information				From/To Information					Note					
Part Number	Start	End	Color	From	Pin No.	Logical Signal Name	I/O	To		Signal Name				
D2025321 for 200V & D20x  D1995321 for 200V & D19x  (Mainframe)	CN124	- 1	CN9	- 18	Yellow	BCU	CN124	1	+24VS	P	D2024499 (Paper Exit Unit)	+24VS	From: BCU (CN124, CN125) - D2025321/D1995321 (Mainframe) - D2024499 (Paper Exit) - Terminal: Electrical Components	
		- 2		- 17				2	EEXDVS_OUT2	-		Paper Exit Switching Solenoid: PWM		
		- 3		- 16				3	GND	G	Terminal:	GND		
		- 4		- 15				4	RRV_SN_SNS	<<<	*Paper Exit Switching Solenoid	Reverse Sensor		
		- 5		- 14				5	+5V	P	*Reverse Sensor	+5V		
		- 6		- 13				6	GND	G	*Paper Exit Sensor	GND		
		- 7		- 12				7	EEX_SN_SNS	<<<	*Paper Exit Full Sensor	Paper Exit Sensor		
		- 8		- 11				8	+5V	P	*Fusing Exit Sensor	+5V		
		- 9		- 10				9	GND	G	*Reverse Motor	GND		
		- 10		- 9				10	EEXFLSN_SNS	<<<		Paper Exit Full Sensor		
		- 11		- 8				11	+5V	P		+5V		
		- 12		- 7				12	GND	G		GND		
		- 13		- 6				13	FFUOUSN_SNS	<<<		Fusing Exit Sensor		
		- 14		- 5				14	+5V	P		+5V		
		CN125	- 1		- 4			CN125	1	RRV_MT_XB	-			Phase XB
			- 2		- 3				2	RRV_MT_B	-			Phase B
			- 3		- 2				3	RRV_MT_XA	-			Phase XA
			- 4		- 1				4	RRV_MT_A	-			Phase A
		CN115	- A1	CN10	- 8	Yellow		CN115	A1	FFR_TSFR_SN-C	<<<	Fusing Roller Temperature Sensor (End)		Fusing Roller Temperature Sensor (End): Compensation
		- A2		- 7				A2	FFR_TSFR_SN-D	<<<		Fusing Roller Temperature Sensor (End): Detection		
		- A3		- 6				A3	GND	G		GND		
		- A4		- 5				A4	FFR_TSBC_SN-C	<<<	Fusing Roller Temperature Sensor (Center)	Fusing Roller Temperature Sensor (Center): Compensation		
		- A5		- 4				A5	FFR_TSBC_SN-D	<<<		Fusing Roller Temperature Sensor (Center): Detection		
		- A6		- 3				A6	GND	G		GND		
		- A7		- 2				A7	FFUNWFW_IN	-	Fusing Unit New Detection Fuse	Fusing Unit New Detection Fuse: Trigger		
		- A8		- 1				A8	GND	G		GND For FUSE		
		- A9	CN11	- 9				A9	FPR_TSFR_SN+	<<<	Pressure Roller Temperature Sensor (End)	Pressure Roller Temperature Sensor (End)		
		- A10		- 8				A10	GND	G		GND		
		- A11		- 7				A11	FPR_TSBC_SN+	<<<	Pressure Roller Temperature Sensor (Center)	Pressure Roller Temperature Sensor (Center)		
		- A12		- 6				A12	GND	G		GND		
		- A13		- 5				A13	FFU_SS_DOM	<<<	Set Detection Mechanism	Set Detection Mechanism: Japan		
		- A14		- 4				A14	FFU_SS_NA	<<<		Set Detection Mechanism: NA/TWN		
		- A15		- 3				A15	FFU_SS_EU	<<<		Set Detection Mechanism: EU		
		- A16		- 2	Yellow			A16	GND	G		D2025321 (200V & D20x): N.C.		
		- A17		- 1	Yellow			A17	GND	G		D20x: GND for Set Detection		
		- A18		-				A18	N.C.	N	N.C.	D1995321 (200V & D20x): N.C.		
		- A19		-				A19	N.C.	N	N.C.			
	CN115	- B1	CN12	- 3	Yellow			B1	GND	G	D2022556 (Registration)	GND	From: BCU(CN115) - D2025321/D1995321(Mainframe) - D2022556 (Registration) - Terminal: Registration Sensor	
		- B2		- 2				B2	CRG_SN_SNS	<<<	Terminal: Registration Sensor	Registration Sensor		
		- B3		- 1				B3	+5V	P		Power +5V		
		- B4	CN13	- 3				B4	GND	G	Transfer Unit Open/Close Sensor	GND		
		- B5		- 2				B5	TTSOCN_SNS	<<<		Transfer Unit Open/Close Sensor		
		- B6		- 1				B6	+5V	P		+5V		
		- B7	CN14	- 2				B7	GND	G	Right Cover Open/Close Switch	GND		
		- B8		- 1				B8	MRDOCSW_SW1	<<<		Right Cover Open/Close Switch		
		- B9	CN17	- 2				B9	GND	G	Toner Bottle Detection Switch	GND		
		- B10		- 1				B10	LWBSTSW_SW1	<<<		Toner Bottle Detection Switch		
		- B11	CN16	- 9				B11	PDRPNSN_V-C	<<<	D2026237 (Transfer Unit)	ID Sensor	From: BCU(CN115) - D2025321/D1995321(Mainframe) - D2026237(Transfer Unit) - Terminal: Electrical Components	
		- B12		- 8				B12	PDRPNSN_L-C	-		ID Sensor: PWM		
		- B13		- 7				B13	GND	G	Terminal:	GND		
		- B14		- 6				B14	+3.3V	P	*ID Sensor	+3.3V		
		- B15		- 5				B15	TTSOCLE_LED-K	-	*Transfer Unit Open/Close LED	Transfer Unit Open/Close LED: OUT		
		- B16		- 4				B16	+5V	P	*Fusing Entrance Sensor	+5V		
		- B17		- 3				B17	GND	G		GND		
		- B18		- 2				B18	FFUINSN_SNS	<<<		Fusing Entrance Sensor		
		- B19		- 1				B19	+5V	P		+5V		
D2025322 (D20x) D1995322 (D19x)  (Mainframe)	CN911	- 1	CN542	- 5	Yellow	PSU	CN911	1	+5VX	P	IPU CN542-5	+5VX		
		- 2		- 4				2	+5VX	P	IPU CN542-4	+5VX		
		- 3		- 3				3	+5V	P	IPU CN542-3	+5V		
		- 4		- 2	Black			4	GND	G	IPU CN542-2	GND		
		- 5		- 1				5	GND	G	IPU CN542-1	GND		
		CN912	- 1	CN310	- 1			CN912	1	GND	G	SIO CN310-1		GND
			- 2		- 2				2	GND	G	SIO CN310-2		GND
			- 3	CN119	- 1				3	GND	G	BCU CN119-1		GND
			- 4		- 2				4	GND	G	BCU CN119-2		GND
			- 5	CN310	- 3	Orange			5	+24V	P	SIO CN310-3		+24V
			- 6		- 4				6	+24V	P	SIO CN310-4		+24V
			- 7	CN119	- 3				7	+24V	P	BCU CN119-3		+24V
			- 8		- 4				8	+24V	P	BCU CN119-4		+24V
	CN913	- 1	CN2	- 2	Yellow		CN913	1	JIGU-24V	P	Relay Tool	Relay Tool: +		
		- 2		- 1				2	JIGU-TRG	<<<		Relay Tool: -		
		- 3	CN120	- 10				3	+24VS	P	BCU CN120-10	+24V Interlock: Power		
		- 4		- 9				4	GND	G	BCU CN120-9	GND		
		- 5		- 8				5	PSU_ZERX1_N	-	BCU CN120-8	Zero-Cross Signal1		
		- 6		- 7				6	PONENG_N	<<<	BCU CN120-7	Energy Save Signal		
		- 7		- 6				7	PSU_HTRY1_P	<<<	BCU CN120-6	Fusing Relay Trigger 1		
		- 8		- 5				8	TRG_HT1	<<<	BCU CN120-5	Fusing Heater 1 Trigger		
		- 9		- 4				9	TRG_HT2	<<<	BCU CN120-4	Fusing Heater 2 Trigger		
		- 10		-				10	TRG_HT3	N	N.C.	N.C.		
		- 11	CN120	- 3	Yellow			11	PSU_HTRY2_P	<<<	BCU CN120-3	Fusing Relay Trigger 2 (DH)		
		- 12		- 2				12	ACV	-	BCU CN120-2	AC Input Voltage Detection (DH)		
		- 13		- 1				13	PSU_ZERX2_N	-	BCU CN120-1	Zero-Cross Signal 2 (DH)		
	CN1	- 3	CN130	- 1		BCU	CN130	1	MHDEFFN_OUT1	-	Development Exhaust Fan	Development Exhaust Fan: ON	D20x only	
		- 2		- 2				2	MHDEFFN_LOK	<<<		Development Exhaust Fan: Lock		
		- 1		- 3				3	GND	G		GND		
	CN4	- 3		- 4				4	QPSCLFN_OUT1	-	PSU Cooling Fan	PSU Cooling Fan: ON		
		- 2		- 5				5	QPSCLFN_LOK	<<<		PSU Cooling Fan: Lock		
		- 1		- 6				6	GND	G		GND		
	CN3	- 3		- 7				7	QCTCLFN_OUT1	-	Development Bearing Cooling Fan (Front)	Development Bearing Cooling Fan (Front): ON		
		- 2		- 8				8	QCTCLFN_LOK	<<<		Development Bearing Cooling Fan (Front): Lock		
		- 1		- 9				9	GND	G		GND		
	CN133	- 1	CN133	- 4	Brown		CN133		GND	G	Key Counter	GND		With Wrong Insert Protection Cover
		- 2		-					KKY_CT_SET	<<<		Key Counter: Set Detection1		
		- 3		-					+24VCNT	P		+24VCNT		
		- 4	CN133	- 1	Brown			4	KKY_CT_OUT2	-		Key Counter: ON		
D2025340 (Mainframe)	CN122	- 1	CN1	- 2	Orange		CN122	1	+24VS	P	Interlock Switch	Interlock Switch	BCU - Interlock Switch	
	CN1	- 1	CN2	- 2									Interlock Switch - Interlock Switch	
	CN2	- 1	CN122	- 2									BCU - Interlock Switch	
D2025351 (Mainframe)	T3		T7		Red	HVP	T	2	+24VL	P	Interlock Switch	+24V	DC High Voltage	
	T1		T5				C	1	HVP: T	-		Transfer		
	T2		T6				B	1	HVP: C	-		Charge Roller		
	T4		T8				D	1	HVP: B	-		Development Roller		
									HVP: D	-		Separation		
D2025362 (Mainframe)	CN902	- 1	CN1	- 1	White	PSU	CN902	1	HT2-N	P	Fusing Unit (Fusing Heater/Lamp)	Fusing Heater/Lamp: Sub: N		
		- 2		- 2				2	HT1-N	P		Fusing Heater/Lamp: Main: N		
		- 3		- 3	Black			3	HT1.2-L	P		Fusing Heater/Lamp: L		

D197/D198/D199/D200/D201/D202 Harness Pin Assignment (Mainframe)

Harness Information				From/To Information					Note
Part Number	Start	End	Color	From	Pin No.	Logical Signal Name	I/O	To	
D2025374 (Mainframe)	CN1 - 1	CN2 - 50	FFC	BCU	CN106	1 FB_FFC_IPU	<<<	IPU	FFC Connection Detection
	- 2	- 49				2 GND	G		GND
	- 3	- 48				3 BREIT_CS_N_O	-		BREIT Chip Selection
	- 4	- 47				4 ICIB_CS_N_O	-		C1: ICIB Chip Selection
	- 5	- 46				5 ANDER_CS_N_O	-		C1: ADENR Chip Selection
	- 6	- 45				6 IPU_A(17)	-		IPU Address Bus 17
	- 7	- 44				7 IPU_A(16)	-		IPU Address Bus 16
	- 8	- 43				8 IPU_A(15)	-		IPU Address Bus 15
	- 9	- 42				9 IPU_A(14)	-		IPU Address Bus 14
	- 10	- 41				10 IPU_A(13)	-		IPU Address Bus 13
	- 11	- 40				11 IPU_A(12)	-		IPU Address Bus 12
	- 12	- 39				12 IPU_A(11)	-		IPU Address Bus 11
	- 13	- 38				13 IPU_A(10)	-		IPU Address Bus 10
	- 14	- 37				14 GND	G		GND
	- 15	- 36				15 IPU_A(9)	-		IPU Address Bus 9
	- 16	- 35				16 IPU_A(8)	-		IPU Address Bus 8
	- 17	- 34				17 IPU_A(7)	-		IPU Address Bus 7
	- 18	- 33				18 IPU_A(6)	-		IPU Address Bus 6
	- 19	- 32				19 IPU_A(5)	-		IPU Address Bus 5
	- 20	- 31				20 IPU_A(4)	-		IPU Address Bus 4
	- 21	- 30				21 IPU_A(3)	-		IPU Address Bus 3
	- 22	- 29				22 IPU_A(2)	-		IPU Address Bus 2
	- 23	- 28				23 IPU_A(1)	-		IPU Address Bus 1
	- 24	- 27				24 GND	G		GND
	- 25	- 26				25 IPU_D(15)	B		IPU Data Bus 15
	- 26	- 25				26 IPU_D(14)	B		IPU Data Bus 14
	- 27	- 24				27 IPU_D(13)	B		IPU Data Bus 13
	- 28	- 23				28 IPU_D(12)	B		IPU Data Bus 12
	- 29	- 22				29 IPU_D(11)	B		IPU Data Bus 11
	- 30	- 21				30 IPU_D(10)	B		IPU Data Bus 10
	- 31	- 20				31 IPU_D(9)	B		IPU Data Bus 9
	- 32	- 19				32 IPU_D(8)	B		IPU Data Bus 8
	- 33	- 18				33 GND	G		GND
	- 34	- 17				34 IPU_D(7)	B		IPU Data Bus 7
	- 35	- 16				35 IPU_D(6)	B		IPU Data Bus 6
	- 36	- 15				36 IPU_D(5)	B		IPU Data Bus 5
	- 37	- 14				37 IPU_D(4)	B		IPU Data Bus 4
	- 38	- 13				38 IPU_D(3)	B		IPU Data Bus 3
	- 39	- 12				39 IPU_D(2)	B		IPU Data Bus 2
	- 40	- 11				40 IPU_D(1)	B		IPU Data Bus 1
	- 41	- 10				41 IPU_D(0)	B		IPU Data Bus 0
	- 42	- 9				42 GND	G		GND
	- 43	- 8				43 IPU_WR_N	-		IPU Write
	- 44	- 7				44 IPU_RD_N	-		IPU Read
	- 45	- 6				45 IPU_INT_N	<<<		IPU Interrupt
	- 46	- 5				46 M2P_RST_N	-		Memory to plotter: Reset
	- 47	- 4				47 S2M_RST_N	-		Scanner to Memory: Reset
	- 48	- 3				48 IPU_WAKE	<<<		IPU Launch Detection
	- 49	- 2				49 ANDER_SET_N_I	<<<		ANDER Set Detection
	- 50	- 1				50 FFC_IPU	-		FFC Connection Detection
D2025385 (Mainframe)	INLET_L	T900	Black	PSU	T900	1 AC-IN/L	P	Power Cord	AC Input: L
	INLET_N	T901	White		T901	1 AC-IN/N	P		AC Input: N
	INLET_E	T1	Green/Yellow	Earth				Body	Ground
D2025396 (Mainframe)	CN121 - 1	CN930 - 3	Yellow	BCU	CN121	1 +24V	P	DHB	+24V
	- 2	- 2				2 PSU_HURY_P	-		Defumidifier Relay: PWM
	- 3	- 1				3 GND	G		GND
D2025397 (Mainframe)	CN904 - 1	CN920 - 3	White	PSU	CN904	1 AC-OUT/N	P		AC Relay: N
	- 2	- 2				2 N.C.	N		N.C.
	- 3	- 1	White			3 AC-OUT/L	P		AC Relay: L
D2025398 (Mainframe)	CN921 - 1	CN1 - 2	White	DHB	CN921	1 AC_N_DEHUHT3	P	Paper Feed Heater	Paper Feed Heater: N
	- 2	CN2 - 2				2 AC_N_DEHUHT4	P	Paper Bank Heater	Paper Bank Heater: N
	- 3	-				3 N.C.	N		N.C.
	- 4	CN1 - 1	White			4 AC_L_DEHUHT3	P	Paper Feed Heater	Paper Feed Heater: L
	- 5	CN2 - 1				5 AC_L_DEHUHT4	P	Paper Bank Heater	Paper Bank Heater: L
D2025399 (Mainframe)	CN922 - 1	CN1 - 2	Blue	DHB	CN922	1 AC_N_DEHUHT1	P	Anti-condensation Heater (Scanner)	Anti-condensation Heater (Scanner): N
	- 2	CN2 - 2				2 AC_N_DEHUHT2	P	Anti-condensation Heater (PCU)	Anti-condensation Heater (PCU): N
	- 3	CN1 - 1				3 AC_L_DEHUHT1	P	Anti-condensation Heater (Scanner)	Anti-condensation Heater (Scanner): L
	- 4	CN2 - 1				4 AC_L_DEHUHT2	P	Anti-condensation Heater (PCU)	Anti-condensation Heater (PCU): L
D2024695 (Duplex Unit)	CN123 - A1	CN1 - 8	Yellow	BCU	CN123	A1 RDPINMT_ENC-A	<<<	Duplex Entrance Motor	Duplex Entrance Motor: Encoder A
	- A2	- 7				A2 RDPINMT_ENC-B	<<<		Duplex Entrance Motor: Encoder B
	- A3	- 6				A3 +5V	P		+5V
	- A4	- 5				A4 RDPINMT_CW	-		Duplex Entrance Motor: Rotating Direction
	- A5	- 4				A5 RDPINMT_PWM	-		Duplex Entrance Motor: Clock
	- A6	- 3				A6 RDPINMT_BRK_N	-		Duplex Entrance Motor: Brake
	- A7	- 2				A7 GND	G		GND
	- A8	- 1				A8 +24VS	P		+24VS
	- A9	CN2 - 3				A9 GND	G	D2024695 (Duplex Unit)	GND
	- A10	- 2				A10 RDPINSN_SNS	<<<	Terminal: Duplex Entrance Sensor	Duplex Entrance Sensor
	- A11	- 1				A11 +5V	P		+5V
	- A12	-				A12 N.C.	N	N.C.	N.C.
	- A13	-				A13 N.C.	N	N.C.	N.C.
	- B1	CN3 - 8	Yellow			B1 HDP_MT_ENC-A	<<<	Duplex/Bypass Motor	Duplex/By-pass Motor: Encoder A
	- B2	- 7				B2 HDP_MT_ENC-B	<<<		Duplex/By-pass Motor: Encoder B
	- B3	- 6				B3 +5V	P		+5V
	- B4	- 5				B4 HDP_MT_CW	-		Duplex/By-pass Motor: Rotating Direction
	- B5	- 4				B5 HDP_MT_PWM	-		Duplex/By-pass Motor: Clock
	- B6	- 3				B6 HDP_MT_BRK_N	-		Duplex/By-pass Motor: Brake
	- B7	- 2				B7 GND	G		GND
	- B8	- 1				B8 +24VS	P		+24VS
	- B9	CN4 - 3				B9 GND	G	Duplex Exit Sensor	GND
	- B10	- 2				B10 RDPOUSN_SNS	<<<		Duplex Exit Sensor
- B11	- 1				B11 +5V	P		+5V	
- B12	CN5 - 2				B12 GND	G	Duplex Guide Switch	GND	
- B13	- 1				B13 RGPOCSN_SW1	<<<		Duplex Guide Switch	
D2024695 (Duplex Unit)	CN112 - 1	CN6 - 5			CN112	1 +24VS	P	D2022643 (Bypass Unit)	+24VS
	- 2	- 4				2 HHDPUSL_OUT2	-	Terminal:	Bypass Pick-up Solenoid: PWM
	- 3	- 3				3 GND	G	*Bypass Pick-up Solenoid	GND
	- 4	- 2				4 HHDPESN_SNS	<<<	*Bypass Paper End Sensor	Bypass Paper End Sensor
	- 5	- 1				5 +5V	P		+5V
	- 6	CN7 - 8				6 HHDMLSW_SW2	<<<	D2022645 (Bypass Unit)	Bypass Length Sensor: 2
	- 7	- 7				7 HHDMLSW_SW1	<<<		Bypass Length Sensor: 1
	- 8	- 6				8 GND	G	*Bypass Length Sensor	GND
	- 9	- 5				9 HHDMLSW_SW4	<<<	*Bypass Width Switch (SW)	Bypass Length Sensor: 4
	- 10	- 4				10 HHDMLSW_SW3	<<<		Bypass Length Sensor: 3
	- 11	- 3				11 GND	G		GND
	- 12	- 2				12 HHDSLNS_SNS	<<<		Bypass Width Switch (SW)
	- 13	- 1				13 +5V	P		+5V

D197/D198/D199/D200/D201/D202 Harness Pin Assignment (Mainframe)

Harness Information				From/To Information					Note		
Part Number	Start	End	Color	From	Pin No.	Logical Signal Name	I/O	To		Signal Name	
D2022643 (Bypass Unit)	CN1 - 1	CN6 - 3	Purple	D2024695 (Duplex Unit)	CN6	5 +24VS	P	Bypass Pickup Solenoid	+24VS	From: BCU(CN112) - D2024695 (Duplex Unit) - D2022643 (Bypass Unit) - Terminal: Electrical Components	
	- 2	- 2	-			-	N.C.	N	-		N.C.
	CN1 - 3	- 1	Purple			4 HHDPUSL_OUT2	-	-	-		Bypass Pickup Solenoid: PWM
	- 4	- 2	-			3 GND	G	Bypass Paper End Sensor	GND		
	- 5	CN7 - 1	-			2 HHDPESN_SNS	<<<	-	-		Bypass Paper End Sensor
D2022645 (Bypass Unit)	CN1 - 1	CN6 - 5	Purple	D2025321 D1995321 (Mainframe)	CN7	1 +5V	P	Bypass Width Sensor (Bypass Width Switch)	Bypass Width Sensor (Bypass Width Switch): 2	From: BCU(CN112) - D2024695(Duplex Unit) - D2022645(Bypass Unit) - Terminal: Electrical Components	
	- 2	- 4	-			7 HHDMLSW_SW1	<<<	-	-		Bypass Width Sensor (Bypass Width Switch): 1
	- 3	- 3	-			6 GND	G	-	-		GND
	- 4	- 2	-			5 HHDMLSW_SW4	<<<	-	-		Bypass Width Sensor (Bypass Width Switch): 4
	- 5	- 1	-			4 HHDMLSW_SW3	<<<	-	-		Bypass Width Sensor (Bypass Width Switch): 3
	- 6	CN7 - 3	-			3 GND	G	Bypass Length Sensor	GND		
	- 7	- 2	-			2 HHDSLNS_SNS	<<<	-	-		Bypass Length Sensor
	- 8	- 1	-			1 +5V	P	-	-		+5V
	T1	T2	-			-	-	Earth	-		Earth
	T2	T4	-			-	-	Earth	-		Earth
D2024672 (Duplex Unit)	CN1 - 1	CN2 - 3	Yellow	D2025321 D1995321 (Mainframe)	CN2	3 GND	G	D2024695 (Duplex Unit)	GND	From: BCU(CN123) - D2024695(Duplex Unit) - D2024672 (Duplex Unit) - Terminal: Electrical Components	
	- 2	- 2	-			2 RDPINSN_SNS	<<<	-	-		Duplex Entrance Sensor
	- 3	- 1	-			1 +5V	P	Terminal: Duplex Entrance Sensor	+5V		
D2022708 (1st/2nd Paper Feed Unit)	CN1 - 1	CN6 - 2	Purple	D2025321 D1995321 (Mainframe)	CN1 (1st Paper Feed Unit) CN5 (2nd Paper Feed Unit)	1 +24VS	P	D1492708 (Paper Feed Unit)	N.C.	From: BCU(CN110/111) - 2025321/D1995321(Mainframe) - D2022708(1st/2nd Paper Feed Unit) - Terminal: Electrical Components	
	- 2	- 1	-			2 CF1PUSL_OUT2	-	-	-		N.C.
	- 3	CN2 - 3	-			3 GND	G	Terminal:	GND		
	- 4	- 2	-			4 CF1SN_SNS	<<<	*1st/2nd Paper Feed Sensor	1st/2nd Paper Feed Sensor		
	- 5	- 1	-			5 +5V	P	*1st/2nd Paper End Sensor	+5V		
	- 6	CN3 - 3	-			6 GND	G	*1st/2nd Paper Feed Tray Limit Sensor	GND		
	- 7	- 2	-			7 CH1SN_SNS	<<<	-	1st/2nd Vertical Transport Sensor		
	- 8	- 1	-			8 +5V	P	-	+5V		
	- 9	CN4 - 3	-			9 GND	G	-	GND		
	- 10	- 2	-			10 CT1PESN_SNS	<<<	-	1st/2nd Paper End Sensor		
	- 11	- 1	-			11 +5V	P	-	+5V		
	- 12	CN5 - 3	-			12 GND	G	-	GND		
	- 13	- 2	-			13 CT1ULSN_SNS	<<<	-	1st/2nd Paper Feed Tray Limit Sensor		
	- 14	- 1	-			14 +5V	P	-	+5V		
D2024499 (Paper Exit Unit)	CN1 - 1	CN2 - 2	Yellow	D2025321 D1995321 (Mainframe)	CN9	1 +24VS	P	Paper Exit Switching Solenoid	+24VS	From: BCU(CN124, CN125) - D2025321/D1995321(Mainframe) - D2024499(Paper Exit Unit) - Terminal: Electrical Components	
	- 2	- 1	-			2 EEXDVSL_OUT2	-	-	-		Paper Exit Switching Solenoid: PWM
	- 3	CN3 - 3	-			3 GND	G	Reverse Sensor	GND		
	- 4	- 2	-			4 RRV_SN_SNS	<<<	-	-		Reverse Sensor
	- 5	- 1	-			5 +5V	P	-	-		+5V
	- 6	CN4 - 3	-			6 GND	G	Paper Exit Sensor	GND		
	- 7	- 2	-			7 EEX_SN_SNS	<<<	-	-		Paper Exit Sensor
	- 8	- 1	-			8 +5V	P	-	-		+5V
	- 9	CN5 - 3	-			9 GND	G	Paper Exit Full Sensor	GND		
	- 10	- 2	-			10 EEXFLSN_SNS	<<<	-	-		Paper Exit Full Sensor
	- 11	- 1	-			11 +5V	P	-	-		+5V
	- 12	CN7 - 3	-			12 GND	G	Fusing Exit Sensor	GND		
	- 13	- 2	-			13 FFUOUSN_SNS	<<<	-	-		Fusing Exit Sensor
	- 14	- 1	-			14 +5V	P	-	-		+5V
	- 15	CN6 - 4	-			15 RRV_MT_XB	-	Reverse Motor	Phase XB		
	- 16	- 3	-			16 RRV_MT_B	-	-	Phase B		
	- 17	- 2	-			17 RRV_MT_XA	-	-	Phase XA		
	- 18	- 1	-			18 RRV_MT_A	-	-	Phase A		
D2022556 (Registration)	CN1 - 1	CN2 - 3	Purple	D2025321 D1995321 (Mainframe)	CN12	1 GND	G	D2022556 (Registration)	GND	From: BCU(CN115) - D2025321/D1995321(Mainframe) - D2022556 (Registration) - Terminal: Registration Sensor	
	- 2	- 2	-			2 CRG_SN_SNS	<<<	Terminal: Registration Sensor	Registration Sensor		
	- 3	- 1	-			3 +5V	P	Power: +5V	Power: +5V		
D2026237 (Transfer Unit)	CN1 - 1	CN2 - 4	Purple	D2025321 D1995321 (Mainframe)	CN16	1 PDRPNSN_V-C	<<<	ID Sensor	ID Sensor	From: BCU(CN115) - D2025321/D1995321 (Mainframe) - D2026237(Transfer Unit) - Terminal: Electrical Components	
	- 2	- 3	-			2 PDRPNSN_L-C	-	-	-		ID Sensor: PWM
	- 3	- 2	-			3 GND	G	-	-		GND
	- 4	CN3 - 1	-			4 +3.3V	P	-	-		+3.3V
	- 5	- 2	-			5 TTSOCLE_LED-K	-	Transfer Unit Open/Close LED	Transfer Unit Open/Close LED: OUT		
	- 6	- 1	-			6 +5V	P	-	-		+5V
	- 7	CN4 - 3	-			7 GND	G	Fusing Entrance Sensor	GND		
	- 8	- 2	-			8 FFUINSN_SNS	<<<	-	-		Fusing Entrance Sensor
	- 9	- 1	-			9 +5V	P	-	-		+5V
D2023172 (PCU)	CN16 - 1	CN1 - 6	Purple	D2025301 (Mainframe)	CN11	1 GND	G	TD Sensor	GND	From: BCU(CN118) - D2025301 (Mainframe) - D2023172 (PCDU) - Terminal: TD Sensor	
	- 2	- 5	-			2 NTNODSN_VOUT	<<<	-	-		TD Sensor: Clock IN
	- 3	- 4	-			3 +3.3V_ID	P	-	-		TD Sensor: 3.3V
	- 4	- 3	-			4 NTNODSN_VTCNT	-	-	-		HST Sensor: 5V
	- 5	- 2	-			5 NTNODSN_SDA	<->	-	-		TD Sensor: TD Sensor: SEL
	- 6	- 1	-			6 NTNODSN_SCL	-	-	-		HST Sensor: HST Sensor: PWM

D197/D198/D199/D200/D201/D202 Harness Pin Assignment (Scanner-related Part)

Harness Information				From/To Information					Signal Name	Note
Part Number	Start	End	Color	From	Pin No.	Logical Signal Name	I/O	To		
D2025200	CN300 - 1	CN530 - A1	-	SBU	CN300	1 GND	G	IPU	GND	
	- 2	- B10	-			2 GND	G		GND	
	- 3	- A2	-			3 F_TA-	-		LVDS Output Data A-	
	- 4	- B9	-			4 F_TA+	-		LVDS Output Data A+	
	- 5	- A3	-			5 F_TB-	-		LVDS Output Data B-	
	- 6	- B8	-			6 F_TB+	-		LVDS Output Data B+	
	- 7	- A4	-			7 F_TC-	-		LVDS Output Data C-	
	- 8	- B7	-			8 F_TC+	-		LVDS Output Data C+	
	- 9	- A5	-			9 F_LVCK-	-		LVDS Transfer Clock-	
	- 10	- B6	-			10 F_LVCK+	-		LVDS Transfer Clock+	
	- 11	- A6	-			11 F_TD-	-		LVDS Output Data D-	
	- 12	- B5	-			12 F_TD+	-		LVDS Output Data D+	
	- 13	- A7	-			13 F_TE-	-		LVDS Output Data E-	
	- 14	- B4	-			14 F_TE+	-		LVDS Output Data E+	
	- 15	- A8	-			15 SFGATE_N	<<<		Original Sub-scanning Area Signal	
	- 16	- B3	-			16 SHGATE_N	<<<		White Board Area Signal	
	- 17	- A9	-			17 SYDI_SBU	-		SBU Sync Serial RX	
	- 18	- B2	-			18 SYCS_SBU_N	<<<		SBU Sync Serial CS	
	- 19	- A10	-			19 SYDO_SBU	<<<		SBU Sync Serial TX	
	- 20	- B1	-			20 SYCLK_SBU	<<<		SBU Sync Serial Clock	
D2025202	CN318 - 1	CN1 - 3	Yellow	SIO	CN318	1 GND	G	Scanner HP Sensor	GND	
	- 2	- 2	-			2 HPS_SNES	<<<		Home Position Signal	
	- 3	- 1	-			3 +5.9V	P		+5.9V	
	- 4	CN2 - 3	-			4 GND	G	DF Position Sensor	GND	
	- 5	- 2	-			5 XAKS	<<<		DF Position Sensor	
	- 6	- 1	-			6 5VE_AKS	P		5VE	
D2025204	CN314 - 1	CN1 - 1	White	SIO	CN314	1 B	-	Scanner Motor	Phase B	
	- 2	- 2	-			2 B/	-		B/ Phase	
	CN314 - 3	- 4	White			3 A/	-		A/ Phase	
	- 5	- 5	-			4 A	-		Phase A	
	CN314 - 4	- 6	White				-			
D2025205	CN311 - A1	CN531 - A15	Yellow	SIO	CN311	A1 HPS	-	IPU	Home Position Sensor Signal	
	- A2	- A14	-			A2 FB_CD2	<<<		Scanner Motor Drive Current Switching Signal 2	
	- A3	- A13	-			A3 FB_CD1	<<<		Scanner Motor Drive Current Switching Signal 1	
	- A4	- A12	-			A4 FB_CD0	<<<		Scanner Motor Drive Current Switching Signal 0	
	- A5	- A11	-			A5 FB_RST	<<<		Scanner Motor Reset Signal	
	- A6	- A10	-			A6 FB_DIR	<<<		Scanner Motor Rotating Direction Switching Signal	
	- A7	- A9	-			A7 FB_CLK	<<<		Scanner Motor Clock Signal	
	- A8	- A8	-			A8 FB_M1	<<<		Scanner Motor Excitation Setting Terminal 2	
	- A9	- A7	-			A9 FB_M0	<<<		Scanner Motor Excitation Setting Terminal 1	
	- A10	- A6	-			A10 FB_EN_N	<<<		Scanner Motor EN Signal	
	- A11	- A5	-			A11 5V_ADF	P		5V Power	
	- A12	- A4	-			A12 DFGATE_N	-		ADF Gate Signal	
	- A13	- A3	-			A13 ADF_TXD	<<<		ADF - Mainframe UART TX	
	- A14	- A2	-			A14 ADF_RXD	-		ADF - Mainframe UART RX	
	- A15	- A1	-			A15 ADF_POW_ON_N	<<<		ADF Power ON Signal	
	- B1	- B15	-			B1 5VE_AKS	P		5VE Power	
	- B2	- B14	-			B2 AKS_N	-		DF Position Sensor Signal	
	- B3	- B13	-			B3 5VE_DOC	P		5VE Power	
	- B4	- B12	-			B4 DOCSET_N	-		ADF Original Set Detection	
	- B5	- B11	-			B5 APS1	-		Original Size Sensor (APS) 1	
	- B6	- B10	-			B6 APS2	-		Original Size Sensor (APS) 2	
	- B7	- B9	-			B7 APS3	-		Original Size Sensor (APS) 3	
	- B8	- B8	-			B8 APS4	-		Original Size Sensor (APS) 4	
	- B9	- B7	-			B9 APS5	-		Original Size Sensor (APS) 5	
	- B10	- B6	-			B10 APS_ON_N	<<<		Original Size Sensor (APS) ON Signal	
- B11	- B5	-			B11 GND	G		GND		
- B12	- B4	-			B12 LED_ON_N	<<<		LED Light-up Signal		
- B13	- B3	-			B13 LED_ERR	-		LED Error Signal		
- B14	- B2	-			B14 GND	G		GND		
- B15	- B1	-			B15 SCN_POW_ON_N	<<<		Scanner Power On Signal		
D6845500 (DF3090)	CN312 - 1	CN100 - 16	-	SIO	CN312	1 GND_ADF	G	ADF	GND	
	- 2	- 15	-			2 GND_ADF	G		GND	
	- 3	- 14	-			3 GND_ADF	G		GND	
	- 4	- 13	-			4 GND_ADF	G		GND	
	- 5	- 12	-			5 24V_ADF	P		24V Power	
	- 6	- 11	-			6 24V_ADF	P		24V Power	
	- 7	- 10	-			7 24V_ADF	P		24V Power	
	- 8	- 9	-			8 24V_ADF	P		24V Power	
	- 9	- 8	-			9 5VE_DOC	P		5VE Power	
	- 10	- 7	-			10 ADF_TXD	-		ADF - Mainframe UART TX	
	- 11	- 6	-			11 XDOCSET	<<<		ADF Original Set Detection	
	- 12	- 5	-			12 ADF_RXD	<<<		ADF - Mainframe UART RX	
	- 13	- 4	-			13 DFGATE_N	<<<		ADF Gate Signal	
	- 14	- 3	-			14 5V_ADF	P		5V Power	
	- 15	- 2	-			15 GND_ADF	G		GND	
	- 16	- 1	-			16 ADF_POW_ON_N	-		ADF Power ON Signal	
D2025206	CN313 - 1	CN2 - 3	Yellow	SIO	CN313	1 GND	G	APS2	GND	
	- 2	- 2	-			2 ASP2	<<<		APS2	
	- 3	- 1	-			3 +3.4VAPS	P		3.4V	
	- 4	CN1 - 3	-			4 GND	G	APS1	GND	
	- 5	- 2	-			5 APS1	<<<		APS1	
	- 6	- 1	-			6 +3.4VAPS	P		3.4V	
	CN315 - 1	CN301 - 13	-	SIO	CN315	1 LED_PWM	<<<	SBU	LED Power Source PWM	
	- 2	- 12	-			2 GND	G		GND	
	- 3	- 11	-			3 GND	G		GND	
	- 4	- 10	-			4 +3.3V	P		3.3V Power	
	- 5	- 9	-			5 +3.3V	P		3.3V Power	
	- 6	- 8	-			6 +3.3V	P		3.3V Power	
	- 7	- 7	-			7 GND	G		GND	
- 8	- 6	-			8 GND	G		GND		
- 9	- 5	-			9 +5.9V	P		5.9V Power		
- 10	- 4	-			10 +5.9V	P		5.9V Power		
- 11	- 3	-			11 GND	G		GND		
- 12	- 2	-			12 +10V	P		10V Power		
- 13	- 1	-			13 GND	G		GND		
D2025207	CN317 - 1	CN350 - 10	White	SIO	CN317	1 GND	G	LED-B	GND	
	- 2	- 9	-			2 LED6	<<<		LED Drive 6	
	- 3	- 8	-			3 LED5	<<<		LED Drive 5	
	- 4	- 7	-			4 LED4	<<<		LED Drive 4	
	- 5	- 6	-			5 V_LED	P		LED Drive Power	
	- 6	- 5	-			6 V_LED	P		LED Drive Power	
	- 7	- 4	-			7 LED3	<<<		LED Drive 3	
	- 8	- 3	-			8 LED2	<<<		LED Drive 2	
	- 9	- 2	-			9 LED1	<<<		LED Drive 1	
	- 10	- 1	-			10 GND	G		GND	



D197/D198/D199/D200/D201/D202 Harness Pin Assignment (Laser-related Part)

Harness Information				From/To Information					Note				
Part Number	Start	End	Color	From	Pin No.	Logical Signal Name	I/O	To		Signal Name			
D2025230	CN2	- 1	CN1 - 5	Purple	IPU	CN2	1	24V	P	Polygon Mirror Motor	24V		
		- 2	- 4				2	GND	G		GND		
		- 3	- 3				3	PMON_N	-		Polygon Mirror Motor On Signal		
		- 4	- 2				4	PMRDY_N	<<<		Polygon Mirror Motor Ready Signal		
		- 5	- 1				5	PMCLK	-		Polygon Mirror Motor Clock		
D1995232	CN538	- 1	CN401 - 10	Purple	IPU	CN538	1	GND	G	LDB	GND		
		- 2	- 9				2	DETP_N	<<<		Sync Detection Signal		
		- 3	- 8				3	SYDO	<<<		Serial Communication Read Data		
		- 4	- 7				4	SYDI	-		Serial Communication Write Data		
		- 5	- 6				5	SYCLK	-		Serial Communication Clock		
		- 6	- 5				6	SYCS_N	-		Serial Communication Chip Selection		
		- 7	- 4				7	DROPEN	<<<		Door Open Signal		
		- 8	- 3				8	ERR_N	<<<		G-MAC Error Signal		
		- 9	- 2				9	APC_N	-		APC Signal		
		- 10	- 1				10	5VS	P		5VS		
		- 11	-				11	5VS	P		5VS		
		- 12	-				12	5VS	P		5VS		
	CN540	CN402	- 2	- 2	Purple	IPU	CN540	1	LDD1_N	-	LDB	LD Light-up Data Signal (-)	
			- 3	- 1				2	LDD1	-		LD Light-up Data Signal (+)	
			- 4	-				3	LDD2_N	-		LD Light-up Signal Beam 2(-)	
			- 5	-				4	LDD2	-		LD Light-up Signal Beam 2(+)	
		CN2	CN536	- 1	- 5	Yellow	IPU	CN2	1	PMCLK	-	Polygon Mirror Motor	Polygon Mirror Motor Clock
				- 2	- 4				2	PMRDY_N	<<<		Polygon Mirror Motor Ready Signal
			- 3	- 3	3				PMON_N	-	Polygon Mirror Motor ON Signal		
			- 4	- 2	4				GND	G	GND		
- 5	- 1	5	24V	P	24V								
D2025232	CN538	- 1	CN401 - 12	Purple	IPU	CN538	1	GND	G	LDB	GND		
		- 2	- 11				2	GND	G		GND		
		- 3	- 10				3	DETP_N	<<<		Sync Detection Signal		
		- 4	- 9				4	SYDO	<<<		Serial Communication Read Data		
		- 5	- 8				5	SYDI	-		Serial Communication Write Data		
		- 6	- 7				6	SYCLK	-		Serial Communication Clock		
		- 7	- 6				7	SYCS_N	-		Serial Communication Chip Selection		
		- 8	- 5				8	DROPEN	<<<		Door Open Signal		
		- 9	- 4				9	ERR_N	<<<		G-MAC Error Signal		
		- 10	- 3				10	APC_N	-		APC Signal		
		- 11	- 2				11	5VS	P		5VS		
		- 12	- 1				12	5VS	P		5VS		
	CN540	CN402	- 1	- 4	Purple	IPU	CN540	1	LDD2_N	-	LDB	LD Light-up Signal Beam 2(-)	
			- 2	- 3				2	LDD2	-		LD Light-up Signal Beam 2(+)	
			- 3	- 2				3	LDD1_N	-		LD Light-up Signal Beam 1(-)	
			- 4	- 1				4	LDD1	-		LD Light-up Signal Beam 1(+)	
		CN2	CN536	- 1	- 5	Yellow	IPU	CN2	1	PMCLK	-	Polygon Mirror Motor	Polygon Mirror Motor Clock
				- 2	- 4				2	PMRDY_N	<<<		Polygon Mirror Motor Ready Signal
			- 3	- 3	3				PMON_N	-	Polygon Mirror Motor ON Signal		
			- 4	- 2	4				GND	G	GND		
- 5	- 1	5	24V	P	24V								

D197/D198/D199/D200/D201/D202 Harness Pin Assignment (Operation Panel)

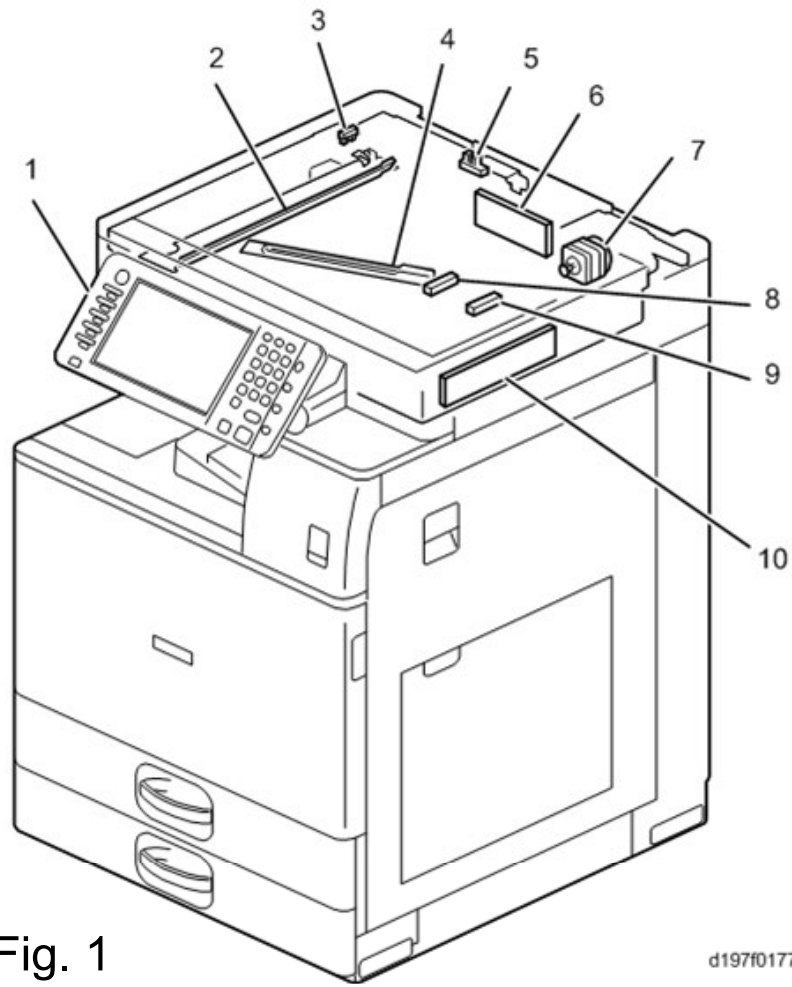
Harness Information				From/To Information					Note		
Part Number	Start	End	Color	From	Pin No.	Logical Signal Name	I/O	To		Signal Name	
D2025221	USB A	- 1	USB B - 1	Black	IPU	CN533	1	+5VX_LPS	P	Operation Panel	5V
		- 2	- 2				2	USB0D-	I/O		USB Data Signal
		- 3	- 3				3	USB0D+	I/O		USB Data Signal
		- 4	- 4				4	GND	G		GND
		- 5	- 5				5	GND	G		GND
D2025222	CN2	- 1	CN1 - 15	Purple	IPU	CN532	1	GND	G	LDB	GND
		- 2	- 14				2	GND	G		GND
		- 3	- 13				3	GND	G		GND
		- 4	- 12				4	SDMODE_N	-		SDMODE_N
		- 5	- 11				5	LDET_IN_N_OPU	<<<		LDET_IN_N_OPU
		- 6	- 10				6	ENG_ENABLE_N_OPU	-		ENG_ENABLE_N_OPU
		- 7	- 9				7	PONOPE_N_OPU	-		PONOPE_N_OPU
		- 8	- 8				8	ECO_SW_N	<<<		ECO_SW_N
		- 9	- 7				9	POKUSB	-		POKUSB
		- 10	- 6				10	OPE_CTLERR_N_OPU	-		OPE_CTLERR_N_OPU
		- 11	- 5				11	OPE_LED_N	-		OPE_LED_N
		- 12	- 4				12	+5VX_LPS	P		5V
		- 13	- 3				13	+5VX_LPS	P		5V
		- 14	- 2				14	+5VX_LPS	P		5V
		- 15	- 1				15	+5VX_LPS	P		5V

D197/D198/D199/D200/D201/D202 Harness Pin Assignment (Appendix)

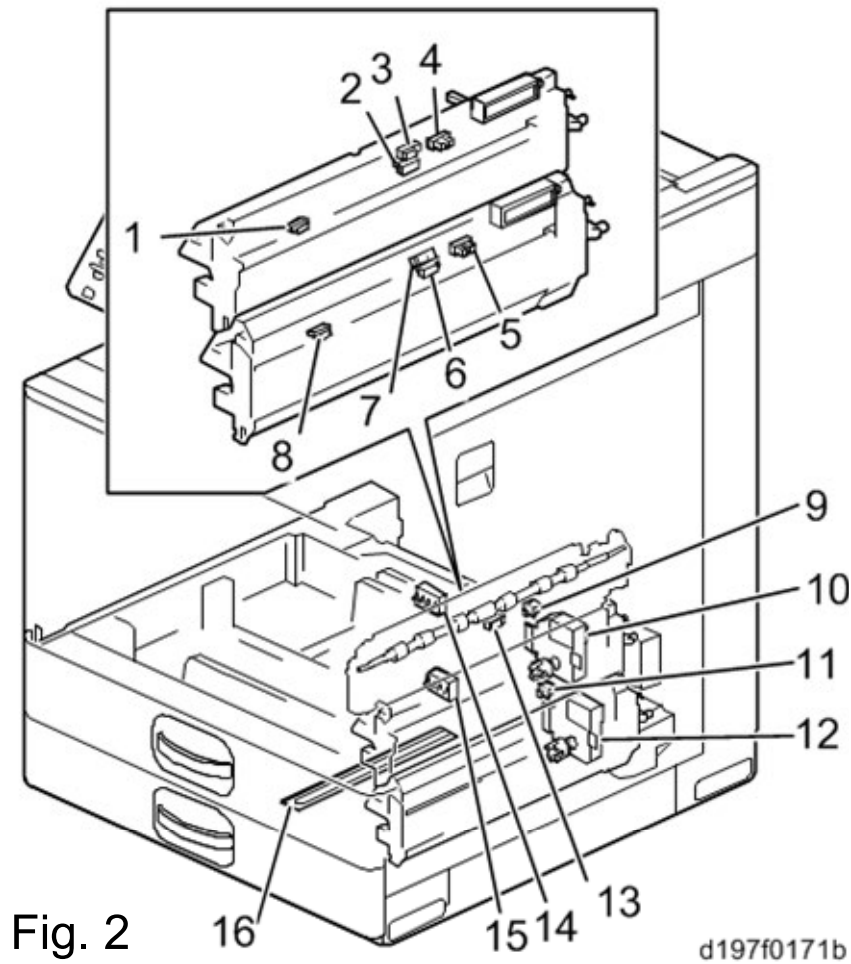
No	Part Number	NA		EU		Note
		D197	D200	D197	D200	
		D197	D200	D197	D200	
		D198	D201	D198	D201	
		D199	D202	D199	D202	
1	D2025301					
2	D2025302					
3	D2025303					
4	D2025304					
5	D2025305					
6	D2025306					
7	D2025307					
8	D2025320	-	Yes	-	Yes	For models that has paper exit motor
9	D1995320	Yes	-	Yes	-	For models that has no paper exit motor
10	D2025321	-	Yes	-	Yes	Detects product destination
11	D1995321	Yes	-	Yes	-	Detects product destination
12	D2025322	-	Yes	-	Yes	For models that has PSU cooling fan
13	D1995322	Yes	-	Yes	-	For models that has no PSU cooling fan
14	D2025333					For preventing wrong insert
15	D2025340					
16	D2025351					
17	D2025362					
18	D2025373					2 piece FFC. This is a sub-part of D2025374.
19	D2025374					
20	D2025385					
21	D2025396					
22	D2025397					
23	D2025398					
24	D2025399					

\*The cells with the same color indicate that the part cannot be used for the other models/destinations.

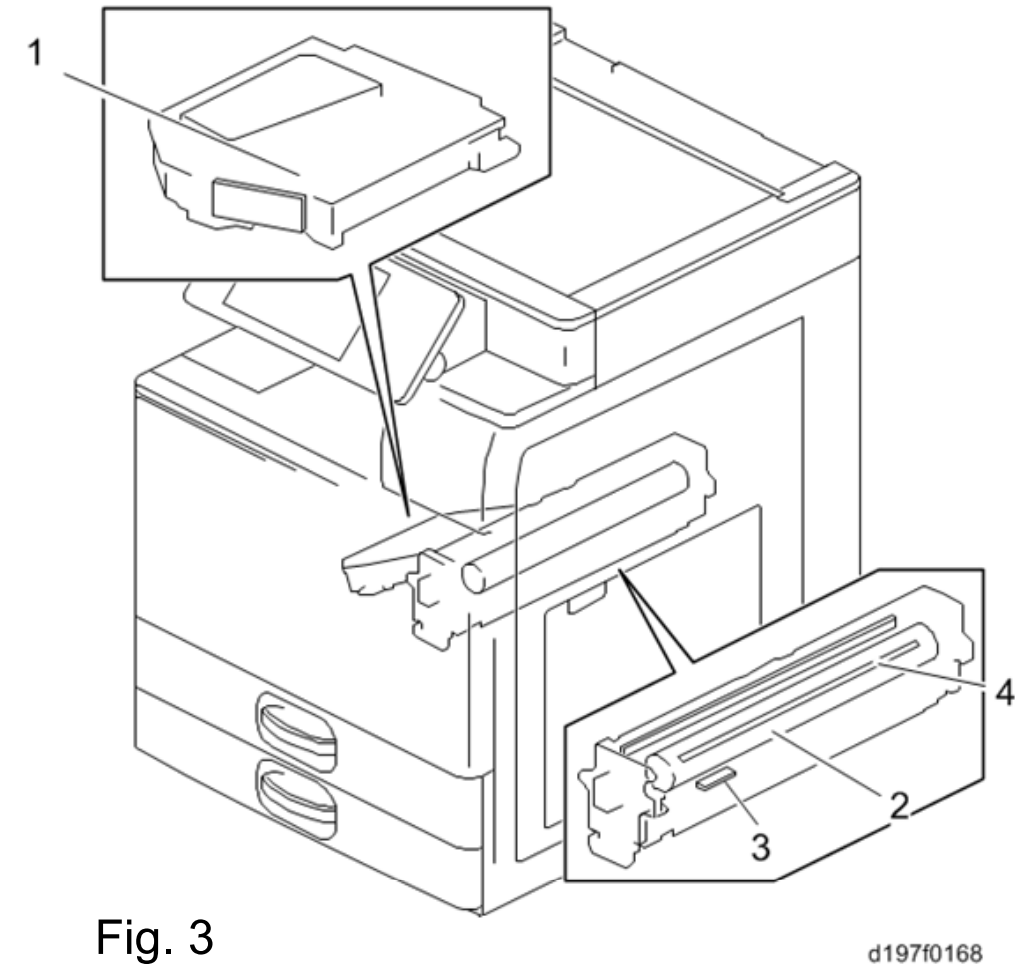
# D197/D198/D199/D200/D201/D202 ELECTRICAL COMPONENT LAYOUT



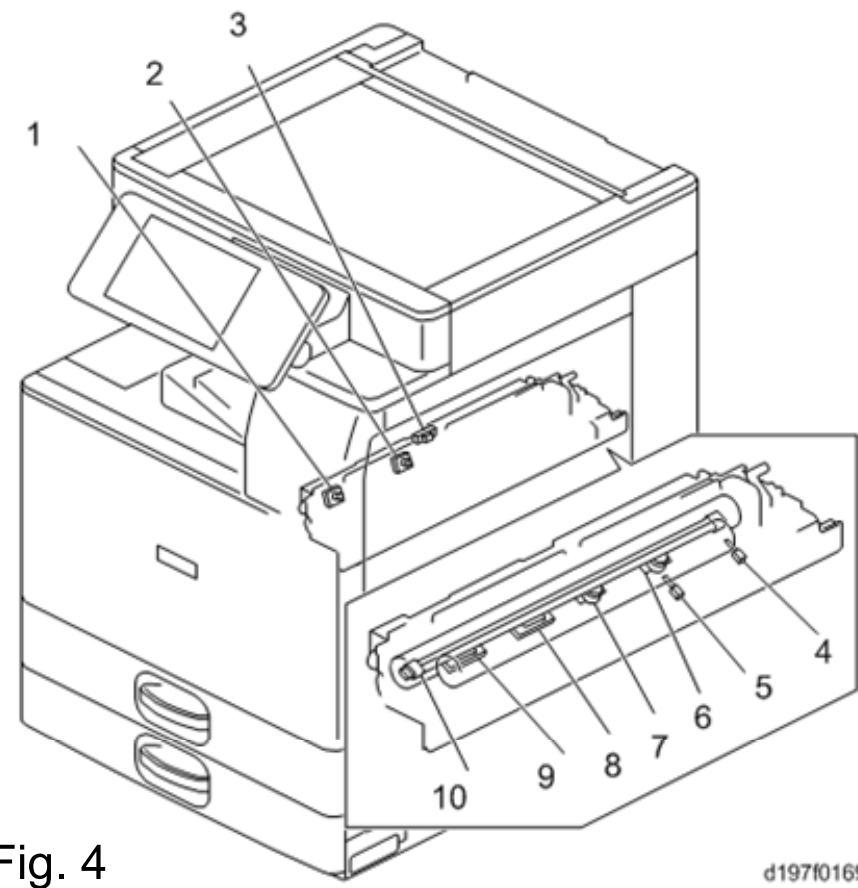
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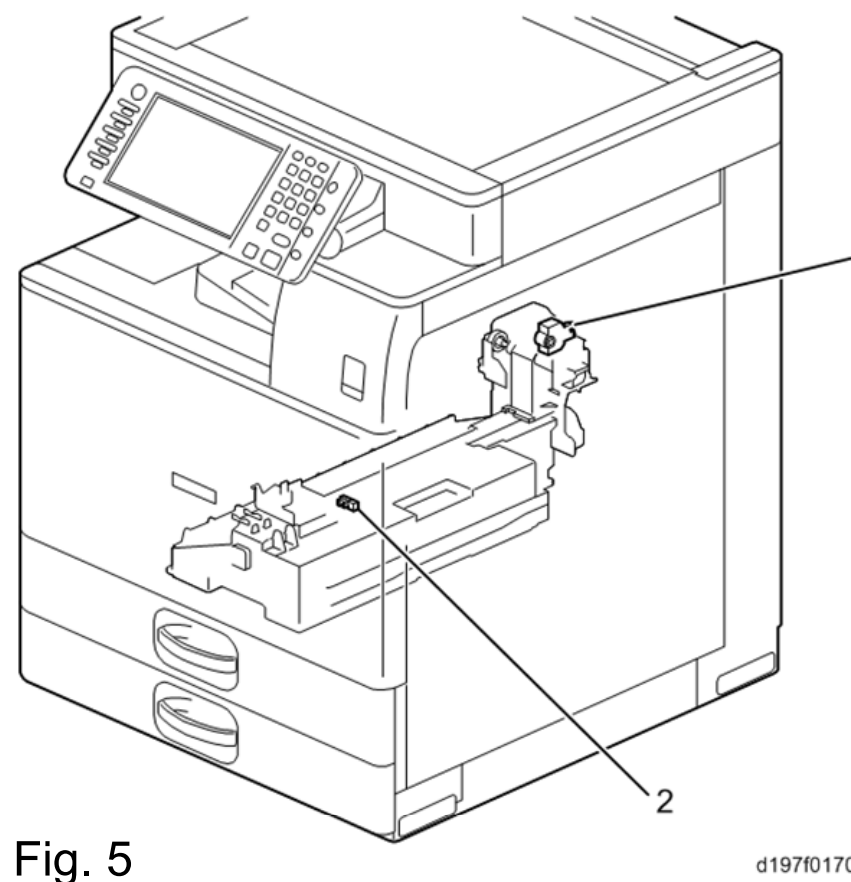
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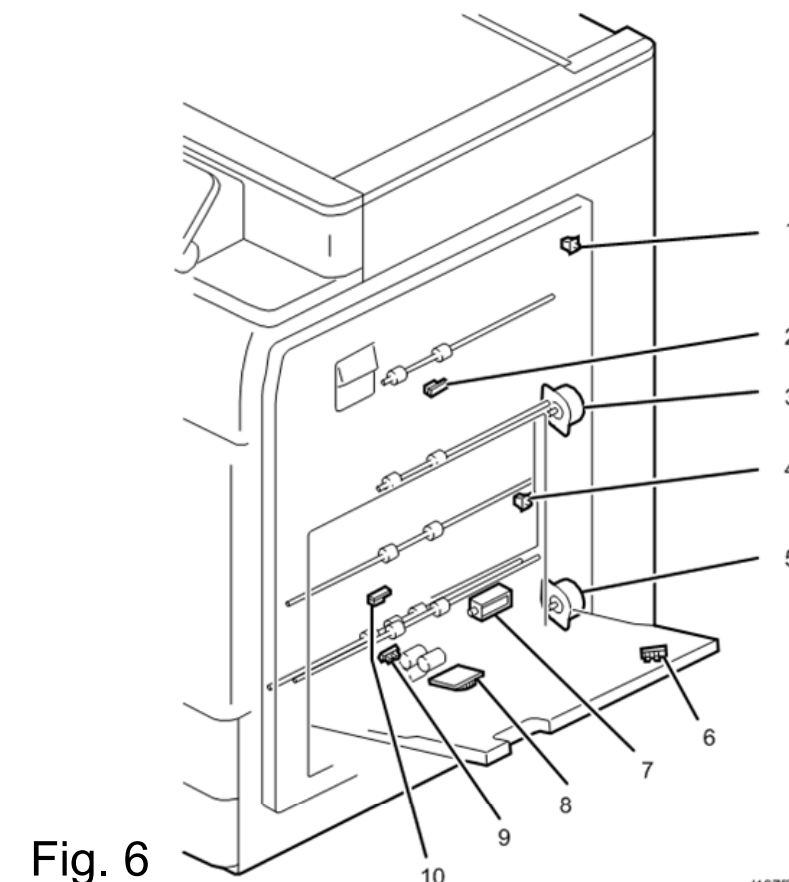
d197f0168



d197f0169



d197f0170



d197f0172

Fig. 4

Fig. 5

Fig. 6

# D197/D198/D199/D200/D201/D202 ELECTRICAL COMPONENT LAYOUT

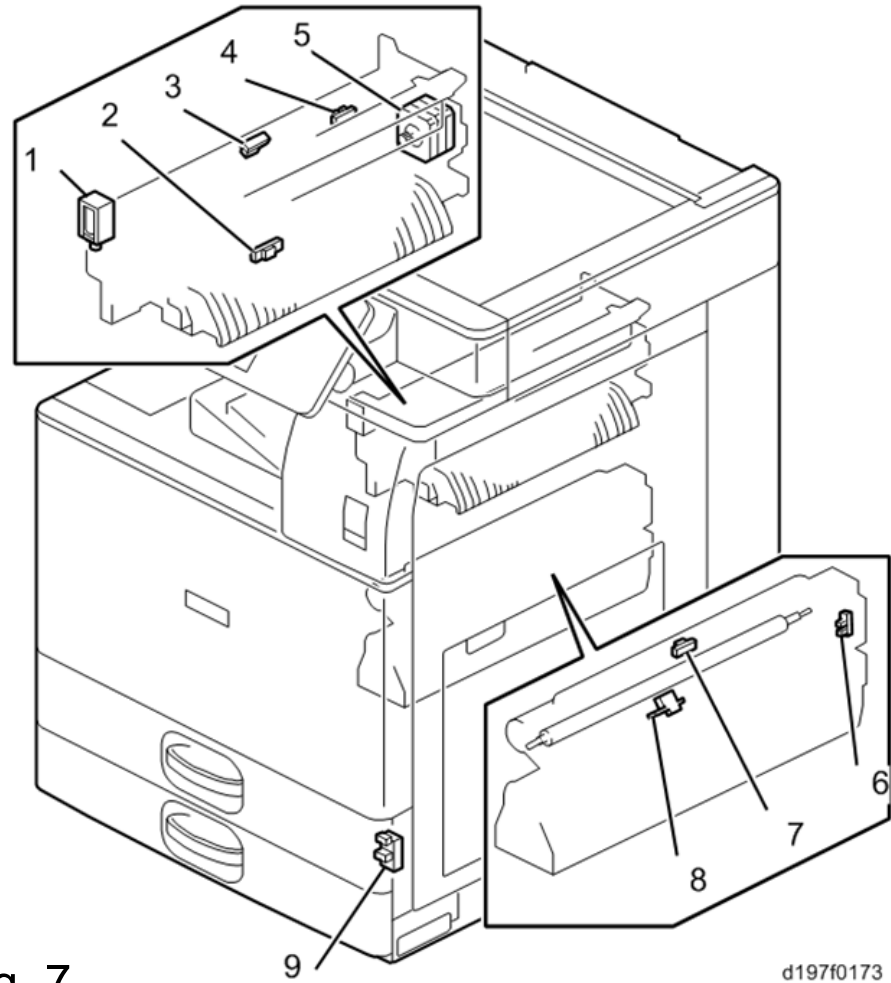


Fig. 7

d197f0173

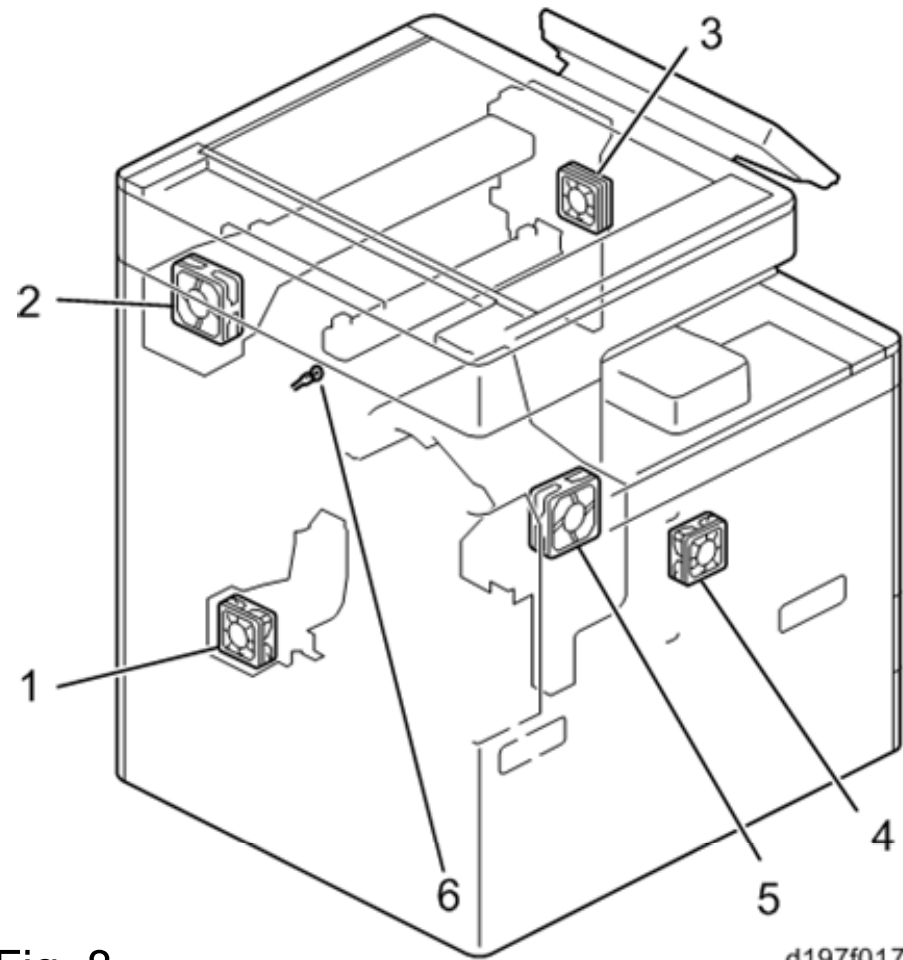


Fig. 8

d197f0174

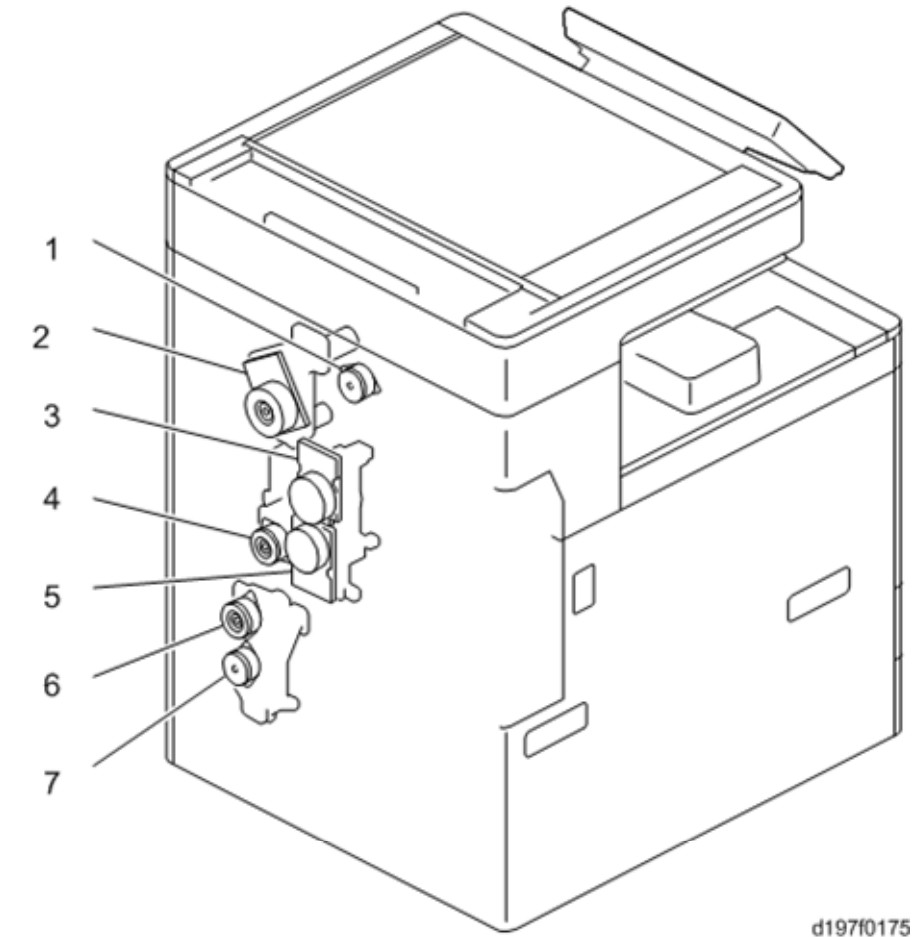


Fig. 9

d197f0175

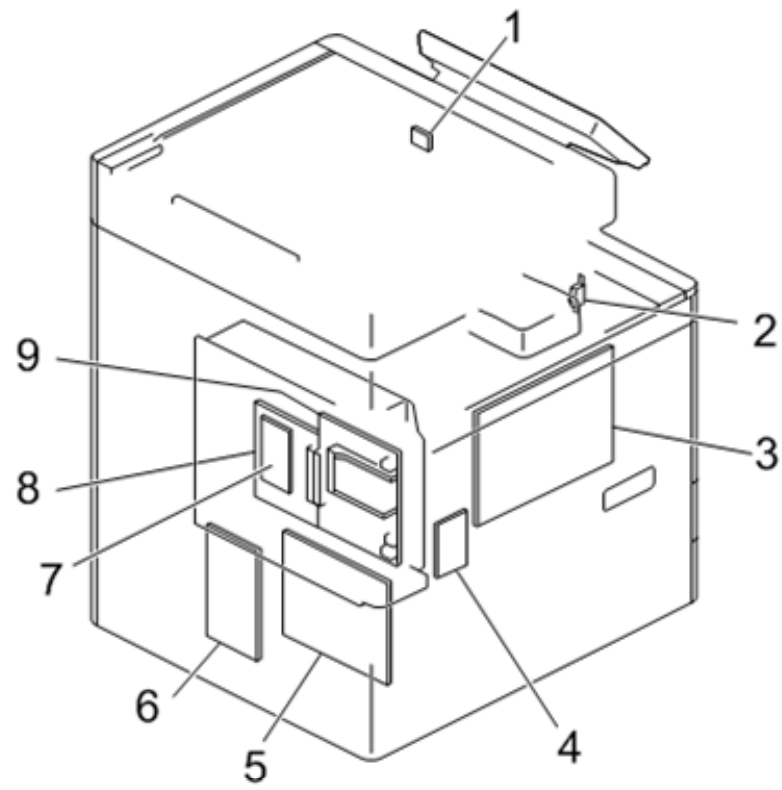
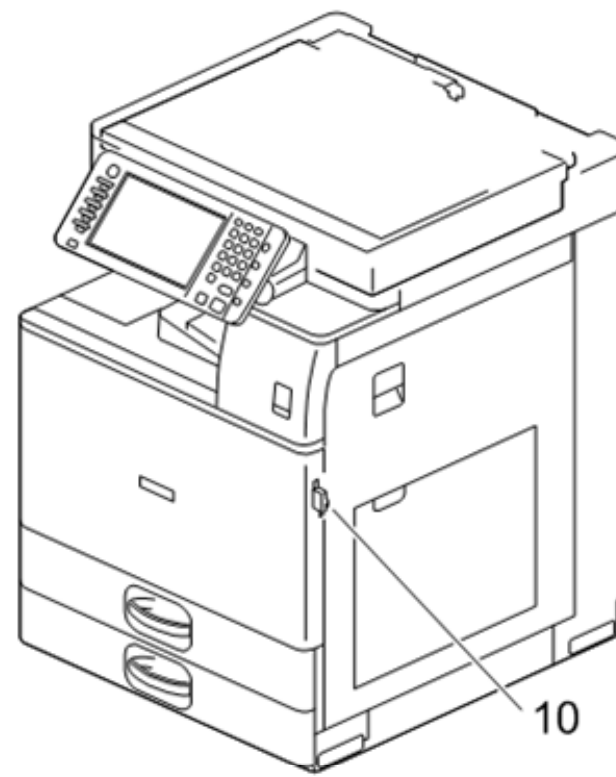


Fig. 10



d197z0408

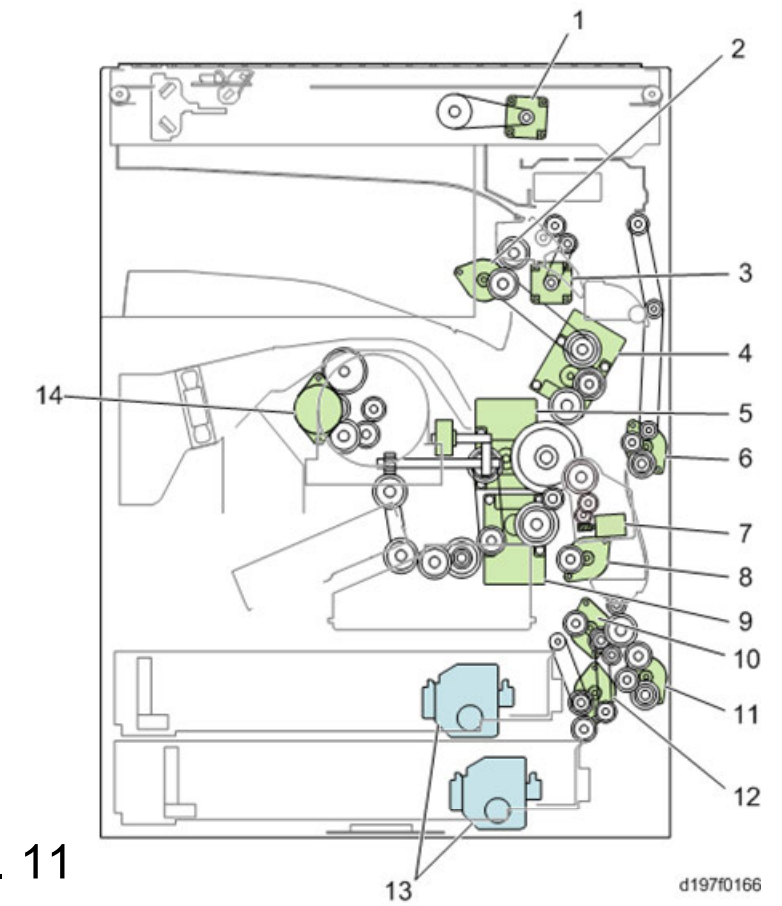


Fig. 11

d197f0166

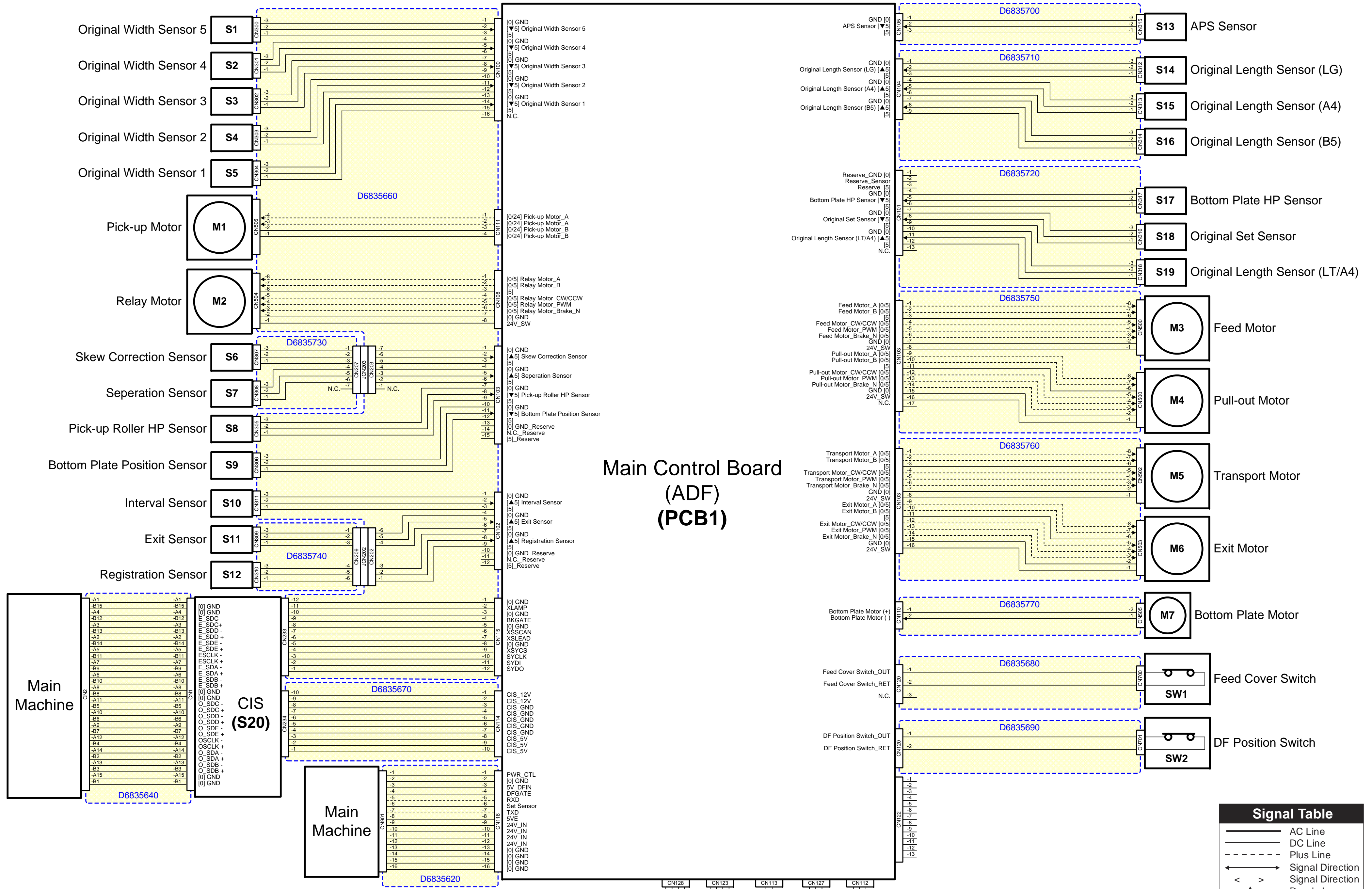
# D197/D198/D199/D200/D201/D202 ELECTRICAL COMPONENT LAYOUT

Symbol	Index No.	Description	P to P
<b>Motors</b>			
M1	Fig.2-10	1st Paper Feed Tray Lift Motor	B1
M2	Fig.2-12	2nd Paper Feed Tray Lift Motor	D1
M3	Fig.7-5	Reverse Motor	E1
M4	Fig.6-3	Duplex Entrance Motor	F1
M5	Fig.6-5	Duplex/Bypass Motor	G1
M6	Fig.9-2	D200, D201, D202: Fusing Motor	D4
	Fig.11-4	D197, D198, D199: Fusing/Paper Exit Motor	
M7	Fig.9-4	Registration Motor	D4
M8	Fig.9-1	Paper Exit Motor (D200, D201, D202 Only)	D4
M9	Fig.9-7	Paper Feed Motor	E4
M10	Fig.9-6	Vertical Transport Motor	E4
M11	Fig.11-7	Transfer Roller Contact Motor	A5
M12	Fig.5-1	Drum/Waste Toner Motor	B5
M13	Fig.9-5	Development Motor	B5
M14	Fig.11-14	Toner Supply Motor	F5
M15	-	Polygon Mirror Motor	C10
<b>Switches</b>			
SW1	Fig.2-14	1st Paper Feed Tray Size Switch	B1
SW2	Fig.2-9	1st Paper Feed Tray Set Switch	B1
SW3	Fig.2-15	2nd Paper Feed Tray Size Switch	C1
SW4	Fig.2-11	2nd Paper Feed Tray Set Switch	D1
SW5	Fig.6-4	Duplex Guide Switch	G1
SW6	-	Toner Bottle Detection Switch	A4
SW7	Fig.6-1	Right Cover Open/Close Switch	B4
SW8	Fig.10-10	Interlock switch (Right Cover)	F4
SW9	Fig.10-2	Interlock switch (Front Cover)	F4
SW10	Fig.10-1	Main Power Switch	B10
<b>LEDs</b>			
LED1	-	Transfer Unit Open/Close LED	C4
<b>Fans</b>			
FAN1	Fig.8-2	Fusing Fan	E4
FAN2	Fig.8-3	Paper Exit Cooling Fan	A5
FAN3	Fig.8-1	Development Bearing Cooling Fan	A5
FAN4	Fig.8-5	Development Exhaust Fan	E5
FAN5	Fig.8-4	PSU Cooling Fan	F5
<b>Boards</b>			
BCU1	Fig.10-5	BCU1	D2/D3
BCU2	Fig.10-5	BCU2	D6
HVP	Fig.10-6	HVP	A7
MKB	-	MKB	B7
DHB	Fig.10-4	DHB	C7
PSU	Fig.10-3	PSU	D7
SIO	Fig.1-6	SIO	F7
IPU	Fig.10-8	IPU	B9
IPU-SUB	Fig.10-7	IPU-SUB	A9
CTL	Fig.10-9	Controller Board	A9
LDB	-	LDB	B10

Symbol	Index No.	Description	P to P
<b>Sensors</b>			
S1	Fig.2-3	1st Paper End Sensor	A1
S2	Fig.2-1	1st Paper Feed Sensor	A1
S3	Fig.2-2	1st Vertical Transport Sensor	A1
S4	Fig.2-4	1st Paper Feed Tray Limit Sensor	B1
S5	Fig.2-7	2nd Paper End Sensor	C1
S6	Fig.2-8	2nd Paper Feed Sensor	C1
S7	Fig.2-6	2nd Vertical Transport Sensor	C1
S8	Fig.2-5	2nd Paper Feed Tray Limit Sensor	C1
S9	Fig.7-3	Reverse Sensor	D1
S10	Fig.7-2	Paper Exit Sensor	D1
S11	Fig.7-4	Paper Exit Full Sensor	D1
S12	Fig.4-3	Fusing Exit Sensor	E1
S13	Fig.6-9	Bypass Paper End Sensor	F1
S14	Fig.6-8	Bypass Width Sensor (Bypass Width Switch)	F1
S15	Fig.6-6	Bypass Length Sensor	F1
S16	Fig.6-2	Duplex Entrance Sensor	F1
S17	Fig.6-10	Duplex Exit Sensor	G1
S18	Fig.2-13	Registration Sensor	B4
S19	Fig.7-6	Transfer Unit Open/Close Sensor	B4
S20	-	ID Sensor	C4
S21	Fig.7-7	Fusing Entrance Sensor	C4
S22	Fig.5-2	Toner Collection Full Sensor	B5
S23	Fig.3-3	TD Sensor	C5
S24	Fig.7-9	Temperature/Humidity Sensor	C5
S25	Fig.8-6	Temperature Sensor	C5
S26	Fig.4-9	Fusing Roller Temperature Sensor (End)	A4
S27	Fig.4-8	Fusing Roller Temperature Sensor (Center)	A4
S28	Fig.4-5	Pressure Roller Temperature Sensor (Center)	A4
S29	Fig.4-4	Pressure Roller Temperature Sensor (End)	B4
<b>Heaters</b>			
HTR1	-	Anti-condensation Heater (PCU)	C8
HTR2	Fig.1-4	Anti-condensation Heater (Scanner)	C8
HTR3	Fig.2-16	Paper Feed Heater	C8
HTR4	-	Bank Heater	C8
<b>Fuse</b>			
FU1	-	Fusing Unit New Detection Fuse	A4
<b>Lamps</b>			
L1	Fig.3-2	Quenching Lamp	B5
L2	Fig.3-4	PCL (Pre Cleaning Lamp)	C5
<b>Thermostats/Thermistors</b>			
TH1	Fig.4-1	Fusing Thermopile (End)	E5
TH2	Fig.4-2	Fusing Thermopile (Center)	E5
<b>Solenoids</b>			
SOL1	Fig.7-1	Paper Exit Switching Solenoid	D1
SOL2	Fig.6-7	Bypass Pick-up Solenoid	E1
SOL3	-	Recycling Shutter Solenoid	B5



# D683 POINT TO POINT DIAGRAM ADF



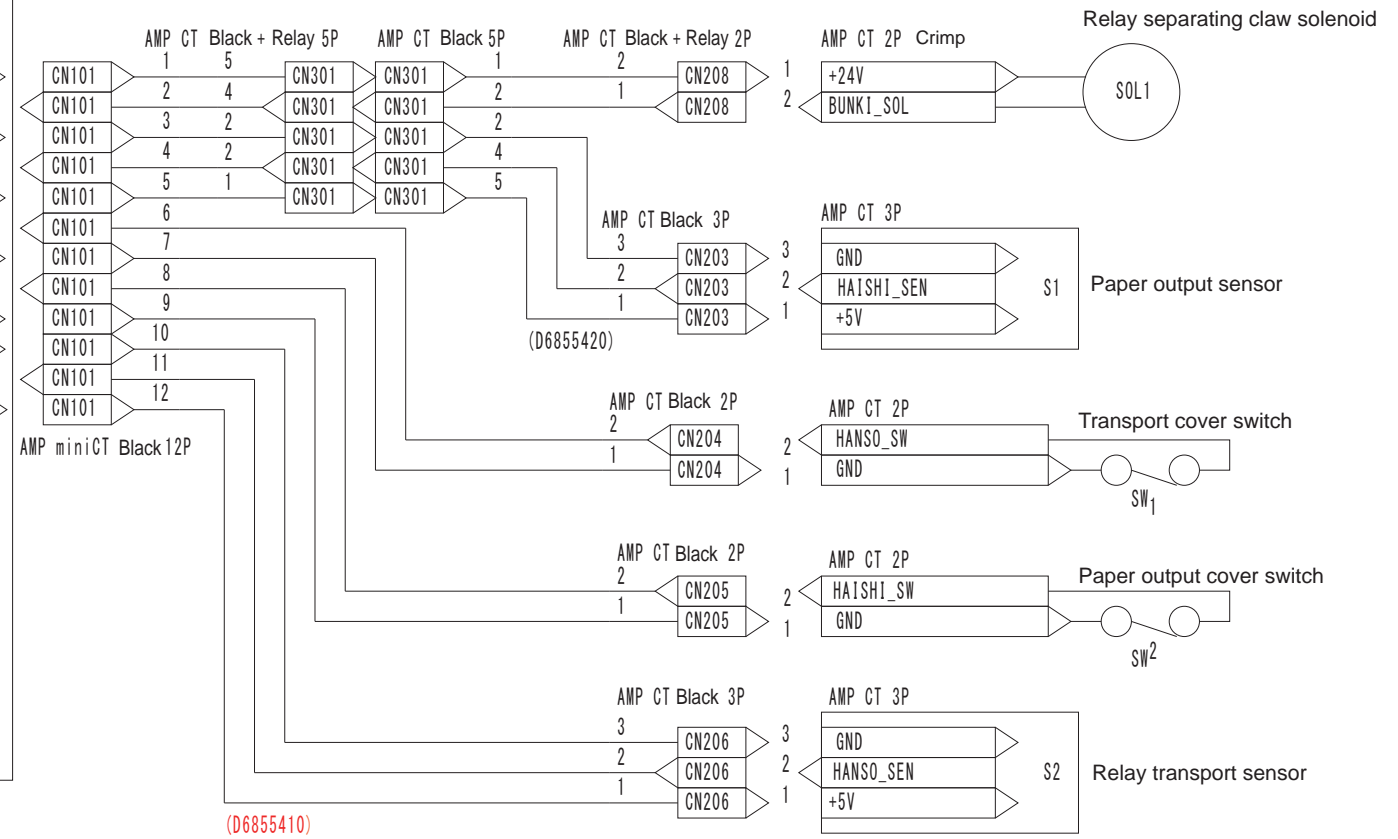
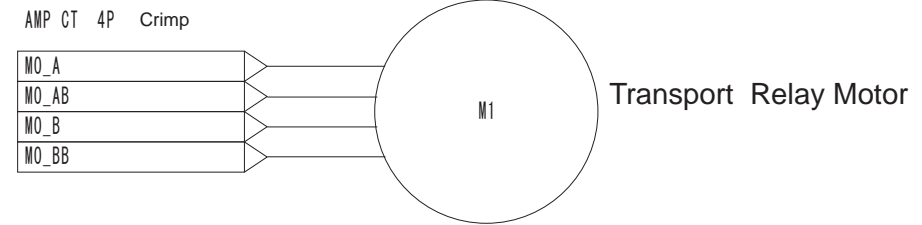
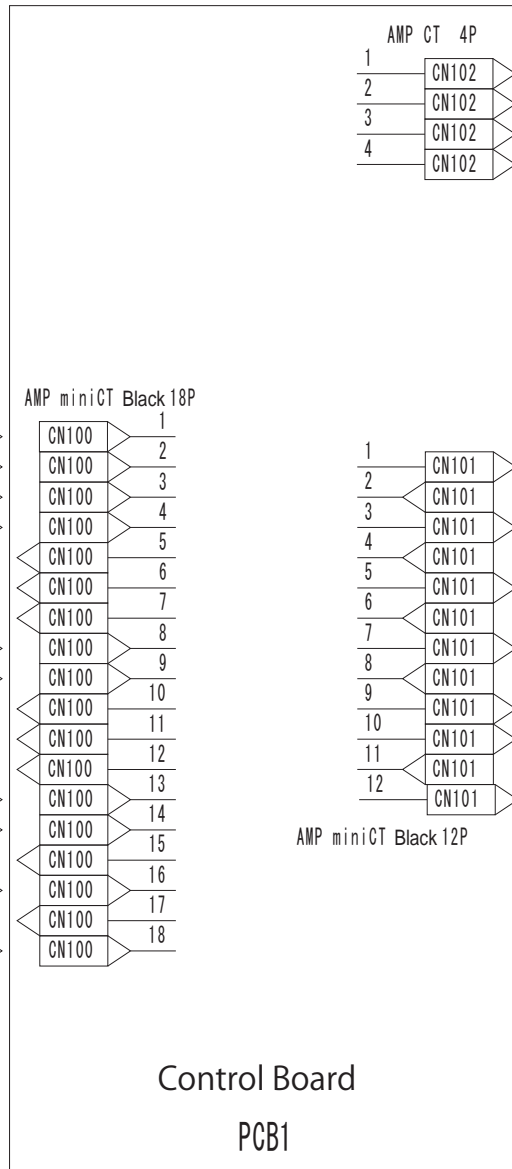
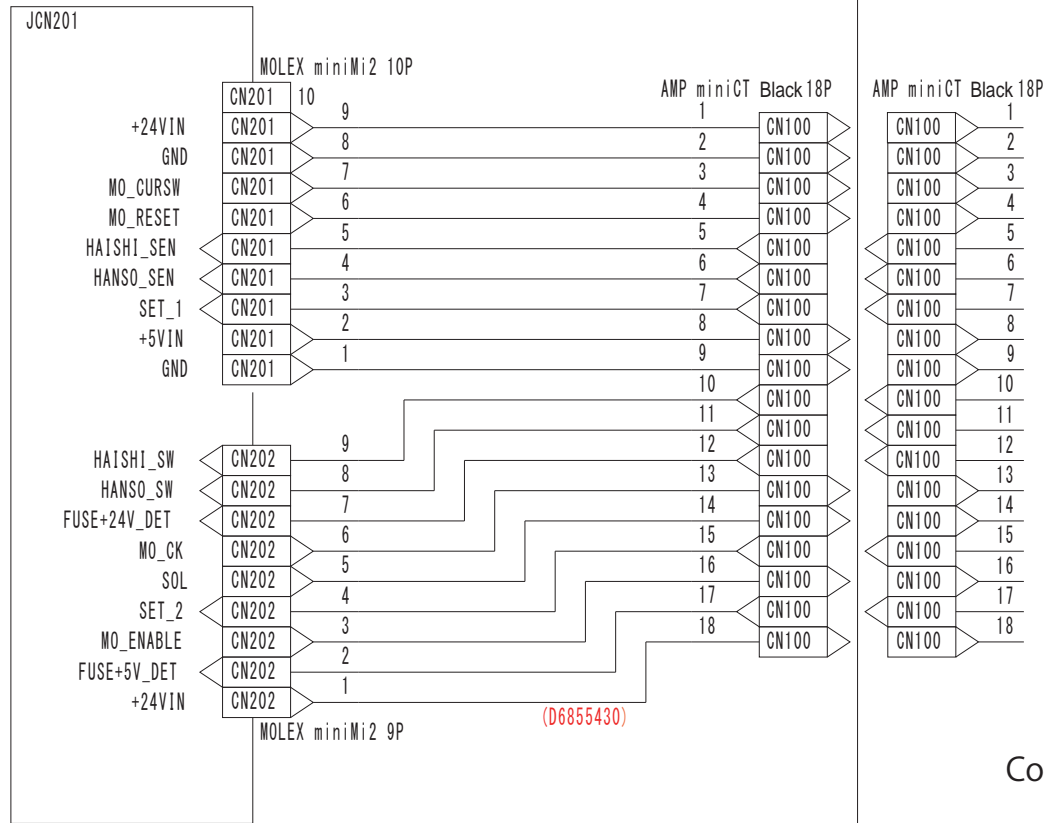
## Main Control Board (ADF) (PCB1)

Signal Table	
	AC Line
	DC Line
	Plus Line
	Signal Direction
	Signal Direction
	Signal Direction
	Ready Low
	Ready High
	Voltage

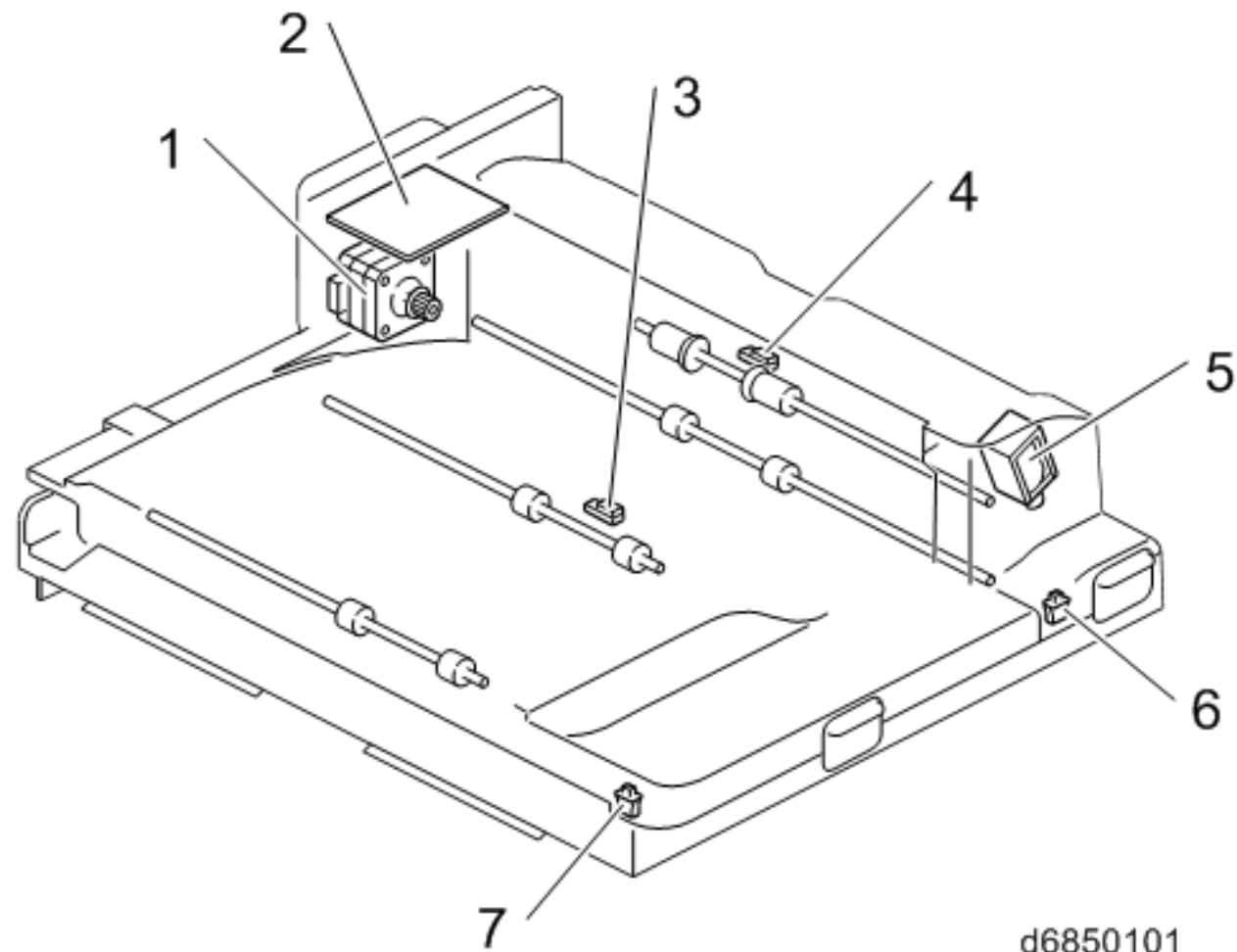


# D685 POINT TO POINT DIAGRAM

MOLEX Connector  
55949 18P

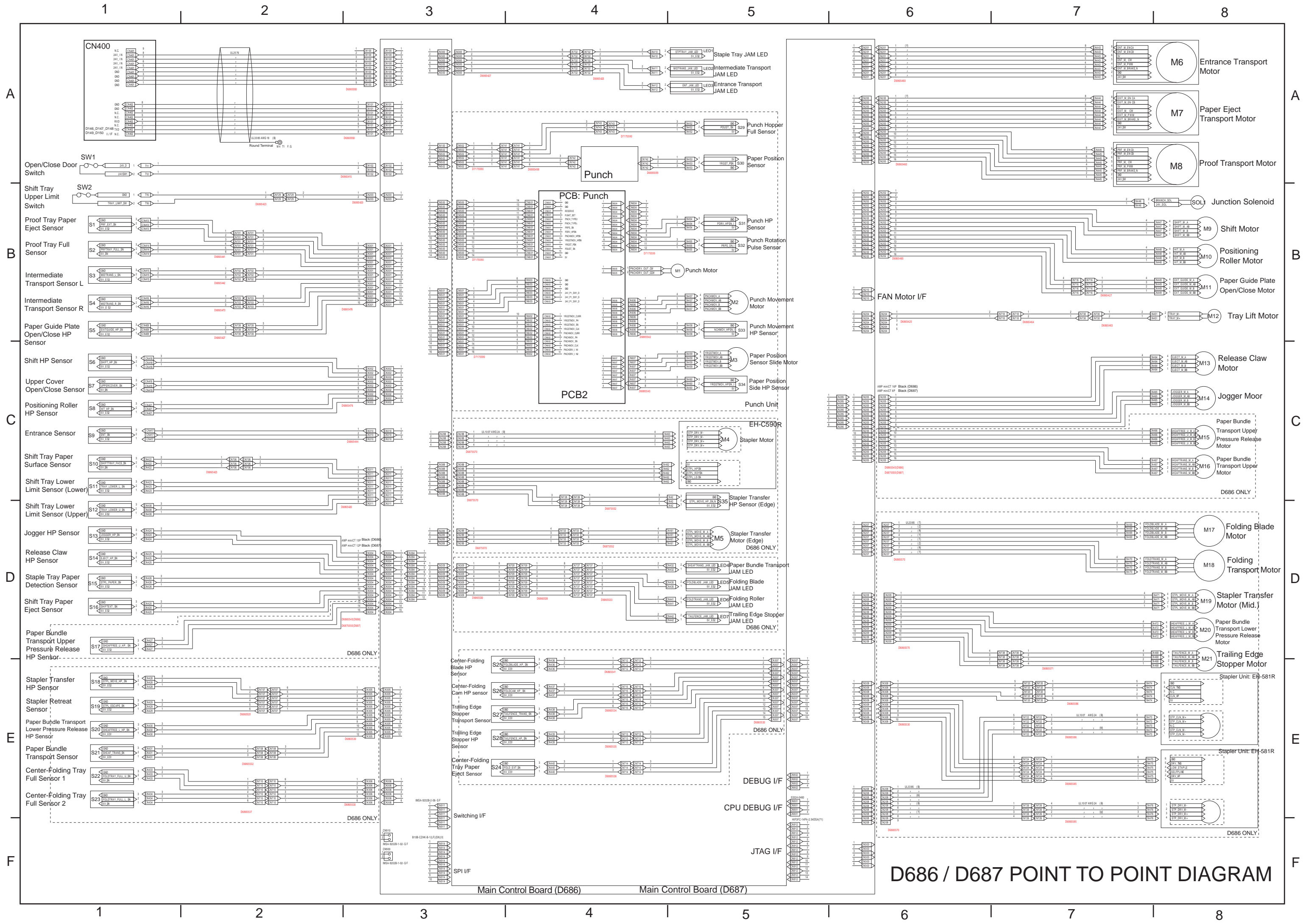


# D685 ELECTRICAL COMPONENT LAYOUT



d6850101

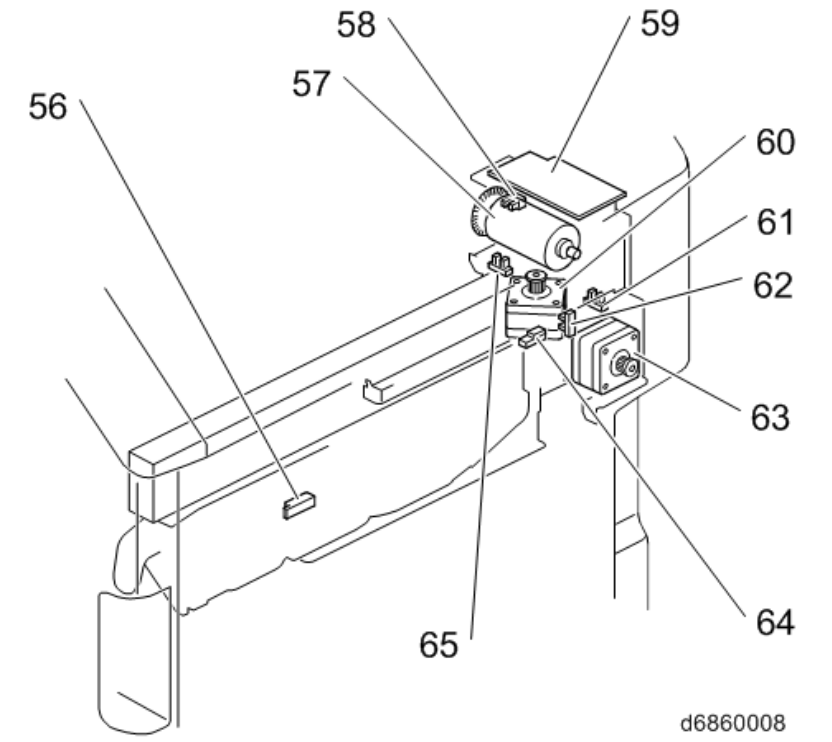
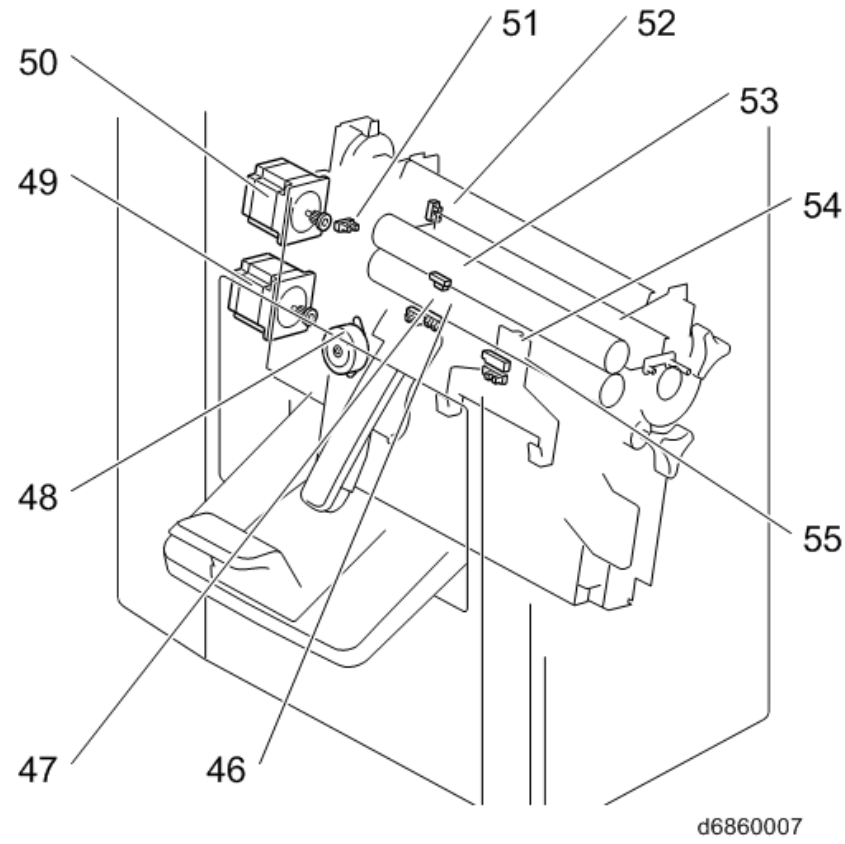
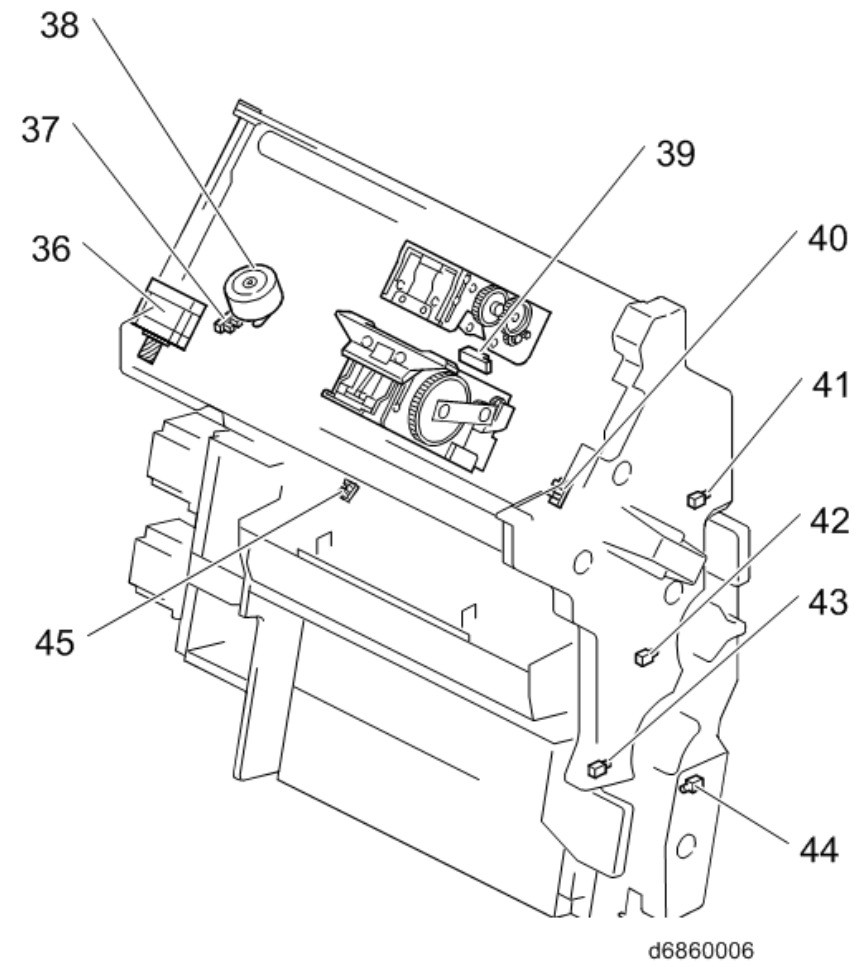
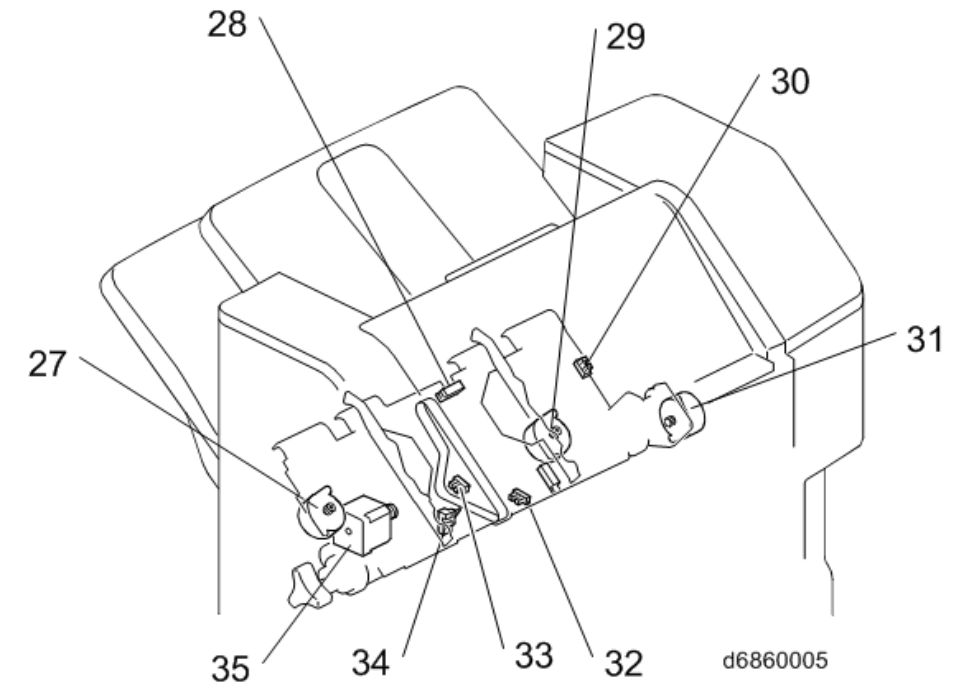
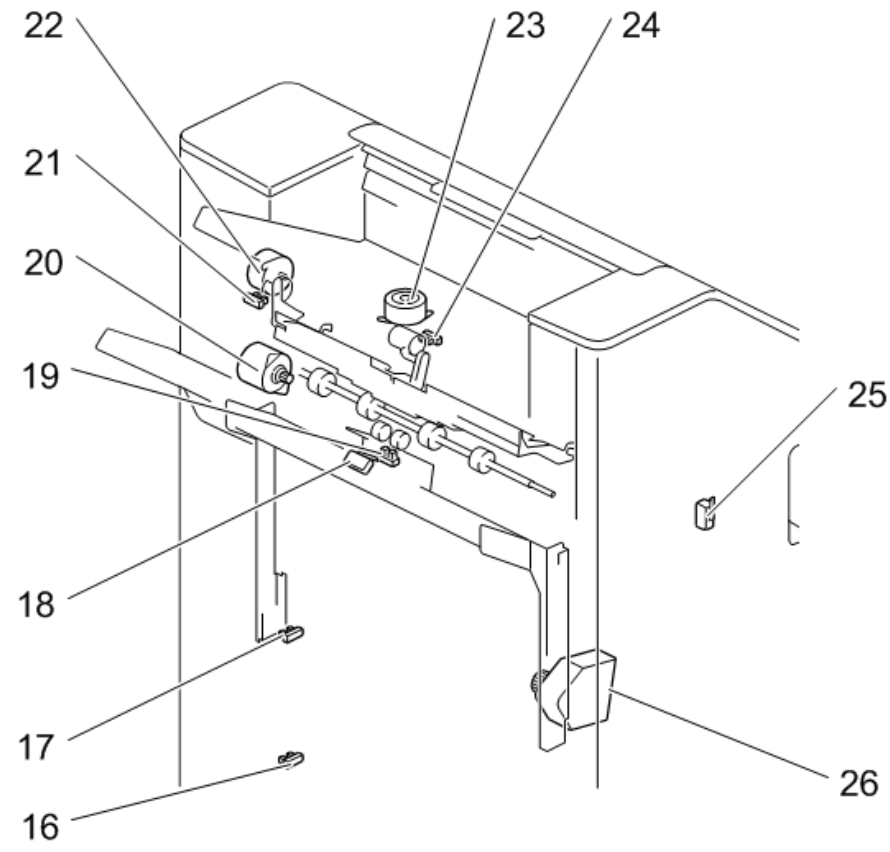
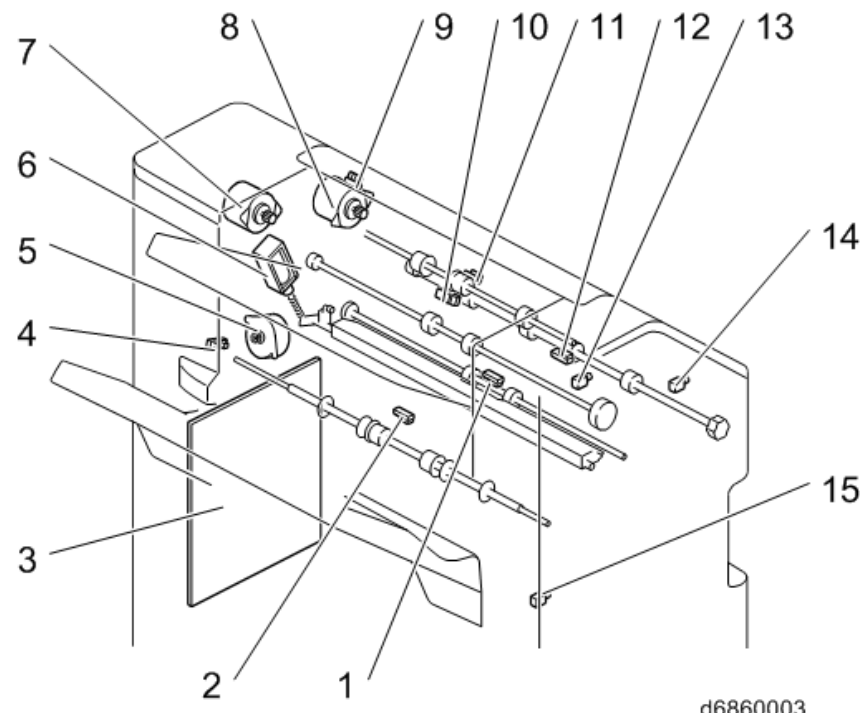
Motors			
Symbol	Index No.	Description	PtoP
M1	1	Transport Relay Motor	B6
Sensors			
Symbol	Index No.	Description	PtoP
S1	4	Paper Output Sensor	C7
S2	3	Relay Transport Sensor	E7
Solenoids			
Symbol	Index No.	Description	PtoP
SOL1	5	Relay Separating Claw Solenoid	C7
Switches			
Symbol	Index No.	Description	PtoP
SW1	7	Transport Cover Switch	D7
SW2	6	Paper Output Cover Switch	D7
PCB			
Symbol	Index No.	Description	PtoP
PCB1	2	Control Board	E4



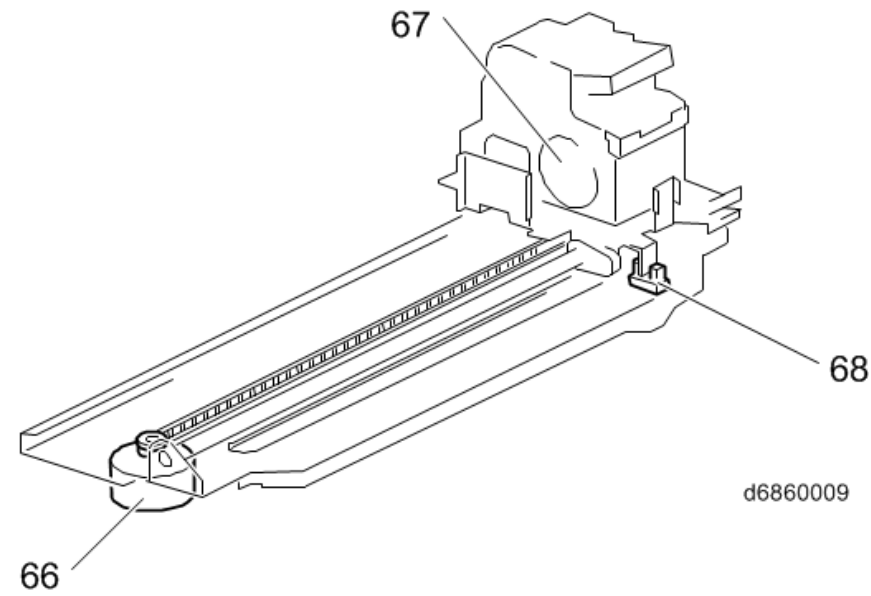
D686 / D687 POINT TO POINT DIAGRAM



# D686 / D687 ELECTRICAL COMPONENT LAYOUT (1/3)



# D686 / D687 ELECTRICAL COMPONENT LAYOUT (2/3)



Switches			
Symbol	Index No.	Description	PtoP
SW1	25	Open/Close Door Switch	A-1
SW2	18	Shift Tray Upper Limit Switch	B-1
LEDs			
Symbol	Index No.	Description	PtoP
LED1	15	Staple Tray JAM LED	A-5
LED2	13	Intermediate Transport JAM LED	A-5
LED3	14	Entrance Transport JAM LED	A-5
LED4	41	Paper Bundle Transport JAM LED	D-5
LED5	42	Folding Blade JAM LED	D-5
LED6	43	Folding Roller JAM LED	D-5
LED7	44	Trailing Edge Stopper JAM LED	D-5
Others			
Symbol	Index No.	Description	PtoP
SOL1	6	Junction Solenoid	B-8
PCB1	3	Main Control Board	F-4, F-5
PCB2	59	Controller Board (PUNCH)	B-4

# D686 / D687 ELECTRICAL COMPONENT LAYOUT (3/3)

Sensors			
Symbol	Index No.	Description	PtoP
S1	11	Proof Tray Paper Eject Sensor	B-1
S2	10	Proof Tray Full Sensor	B-1
S3	2	Intermediate Transport Sensor L	B-1
S4	1	Intermediate Transport Sensor R	B-1
S5	24	Paper Guide Plate Open/Close HP Sensor	B-1
S6	4	Shift HP Sensor	C-1
S7	9	Upper Cover Open/Close Sensor	C-1
S8	21	Positioning Roller HP Sensor	C-1
S9	12	Entrance Sensor	C-1
S10	19	Shift Tray Paper Surface Sensor	C-1
S11	16	Shift Tray Lower Limit Sensor (Lower)	C-1
S12	17	Shift Tray Lower Limit Sensor (Upper)	D-1
S13	30	Jogger HP Sensor	D-1
S14	34	Release Claw HP Sensor	D-1
S15	32	Staple Tray Paper Detection Sensor	D-1
S16	28	Shift Tray Paper Eject Sensor	D-1
S17	33	Paper Bundle Transport Upper Pressure Release HP Sensor	D-1
S18	40	Stapler Transfer HP Sensor (Mid.)	E-1
S19	45	Stapler Retreat Sensor	E-1
S20	37	Paper Bundle Transport Lower Pressure Release	E-1
S21	39	Paper Bundle Transport Sensor	E-1
S22	46	Center-Folding Tray Full Sensor 1	E-1
S23	47	Center-Folding Tray Full Sensor 2	E-1
S24	52	Center-Folding Blade HP Sensor	E-3
S25	51	Center-Folding Cam HP Sensor	E-3
S26	54	Trailing Edge Stopper Transport Sensor	E-3
S27	55	Trailing Edge Stopper HP Sensor	E-3
S28	53	Center-Folding Tray Paper Eject Sensor	E-3
S29	56	Punch Hopper Full Sensor	A-5
S30	64	Paper Position Sensor	A-5
S31	65	Punch HP Sensor	B-5
S32	58	Punch Rotation Pulse Sensor	B-5
S33	61	Punch Movement HP Sensor	C-5
S34	62	Paper Position Slide HP Sensor	C-5
S35	68	Stapler Transfer HP Sensor (Edge)	D-5

Motors			
Symbol	Index No.	Description	PtoP
M1	57	Punch Motor	B-5
M2	60	Punch Movement Motor	B-5
M3	63	Paper Position Sensor Slide Motor	C-5
M4	67	Stapler Motor	C-5
M5	66	Stapler Transfer Motor (Edge)	D-5
M6	8	Entrance Transport Motor	A-8
M7	20	Paper Eject Transport Motor	A-8
M8	7	Proof Transport Motor	A-8
M9	5	Shift Motor	B-8
M10	22	Positioning Roller Motor	B-8
M11	23	Paper Guide Plate Open/Close Motor	B-8
M12	26	Tray Lift Motor	B-8
M13	35	Release Claw Motor	C-8
M14	27	Jogger Motor	C-8
M15	29	Paper Bundle Transport Upper Pressure Release Motor	C-8
M16	31	Paper Bundle Transport Upper Motor	C-8
M17	49	Folding Blade Motor	D-8
M18	50	Folding Transport Motor	D-8
M19	36	Stapler Transfer Motor (Mid.)	D-8
M20	38	Paper Bundle Transport Lower Pressure Release Motor	D-8
M21	48	Trailing Edge Stopper Motor	E-8







# FINISHER/BOOKLET FINISHER (D688/D689) ELECTRICAL COMPONENT LAYOUT (1/2)

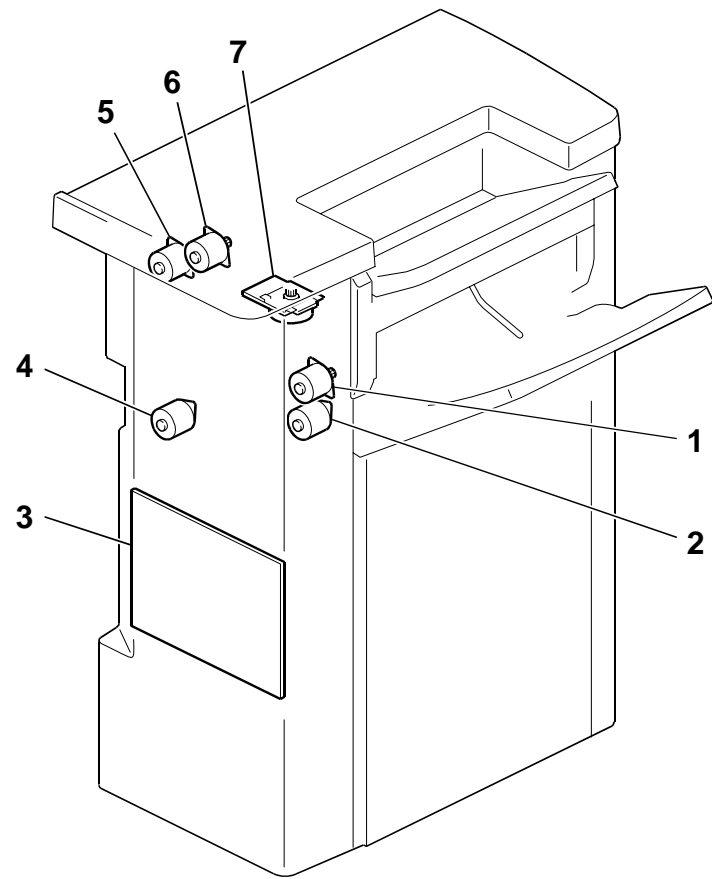


Fig-1

d7049902.wmf

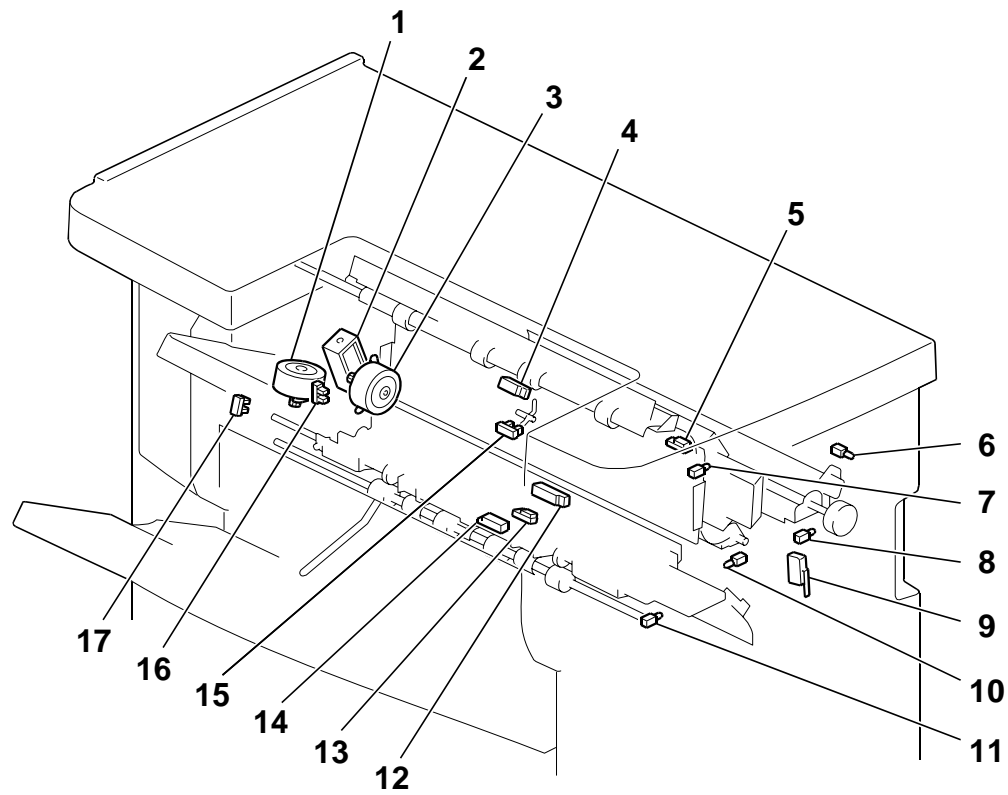


Fig-2

d7049901.wmf

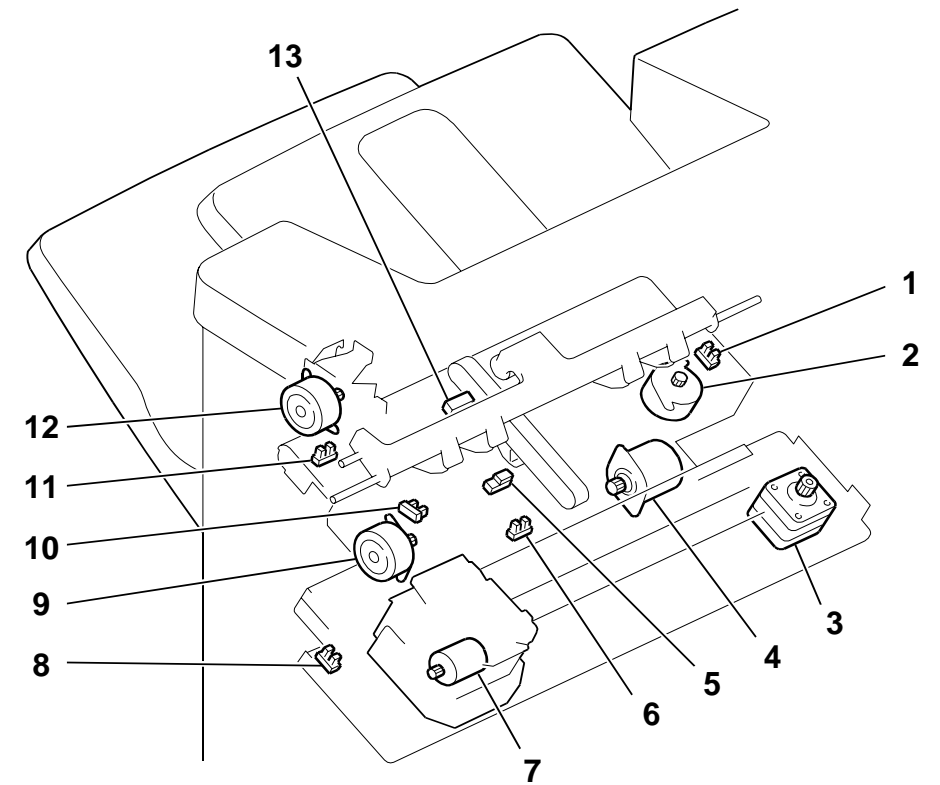


Fig-3

d7049903.wmf

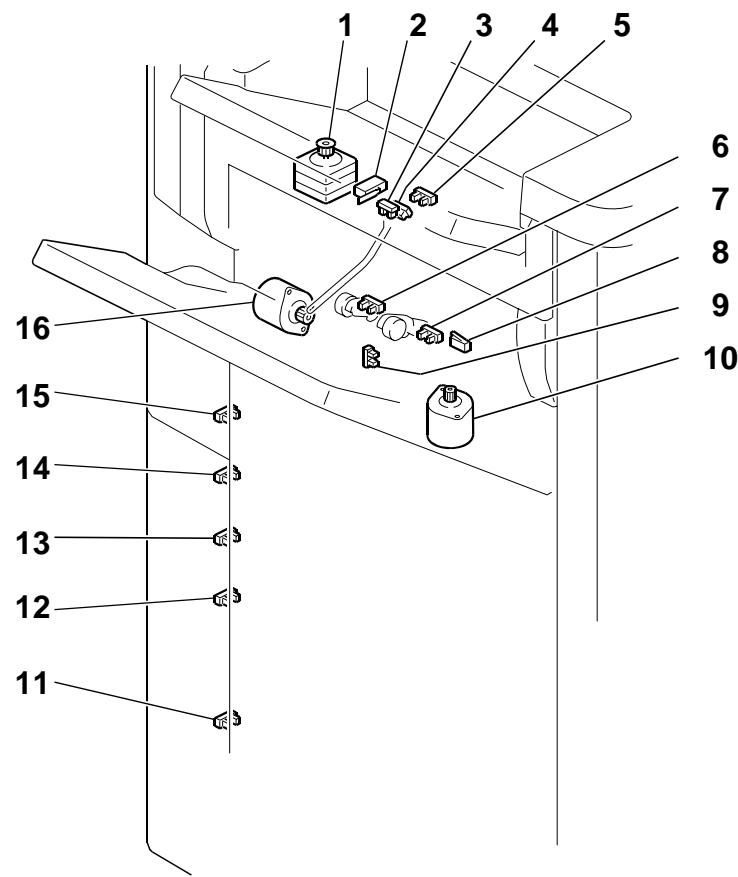


Fig-4

d7049904.wmf

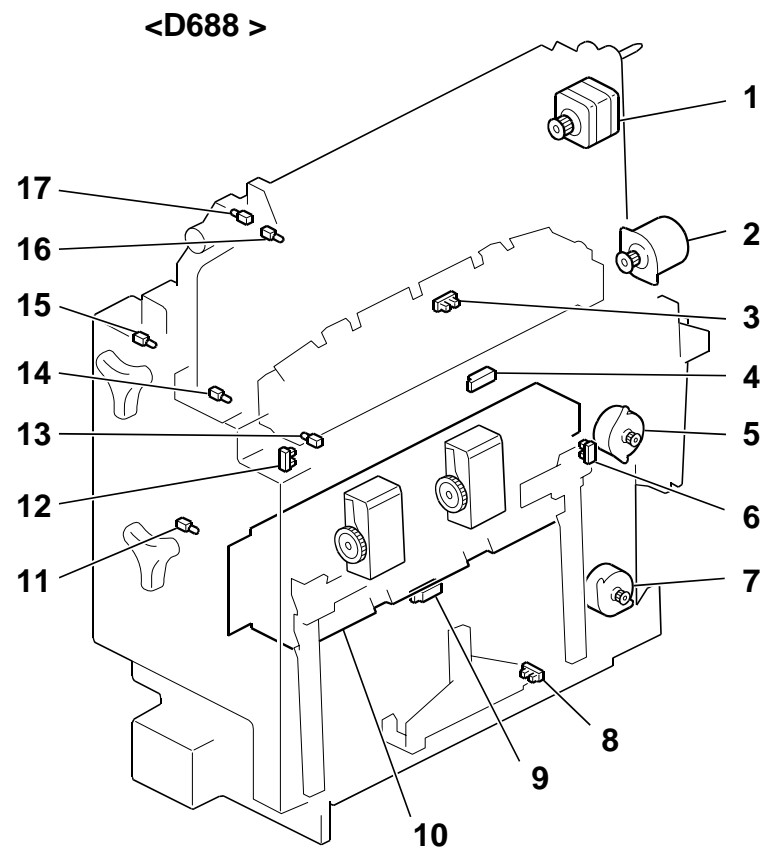


Fig-5

d7049907.wmf

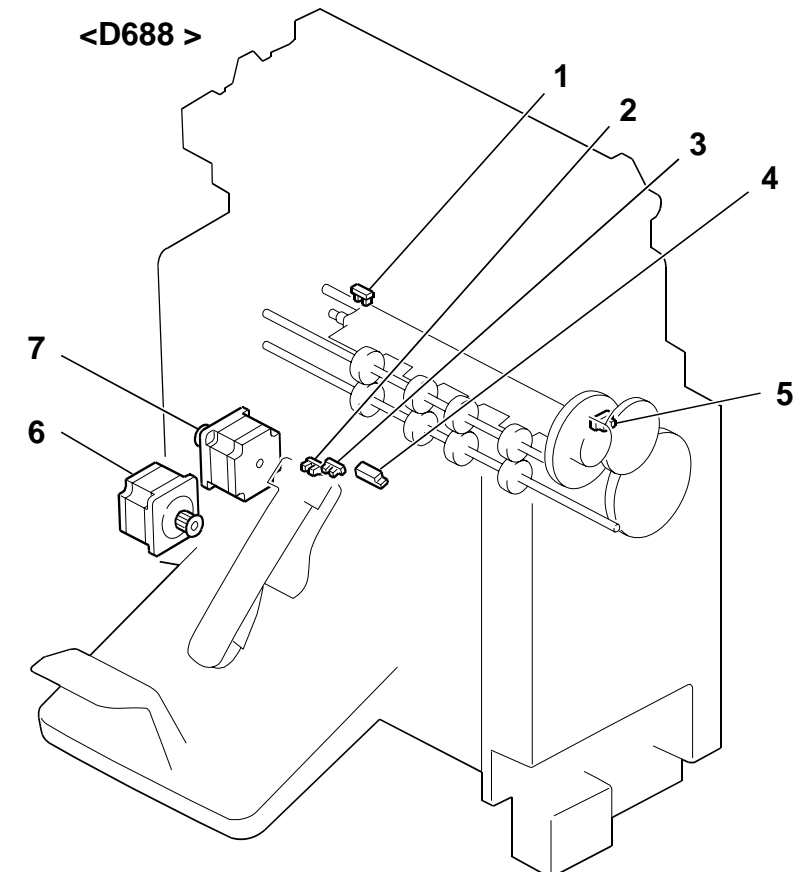


Fig-6

d7049906.wmf

# FINISHER/BOOKLET FINISHER (D688/D689) ELECTRICAL COMPONENT LAYOUT (2/2)

< D706 Punch Unit (Option) >

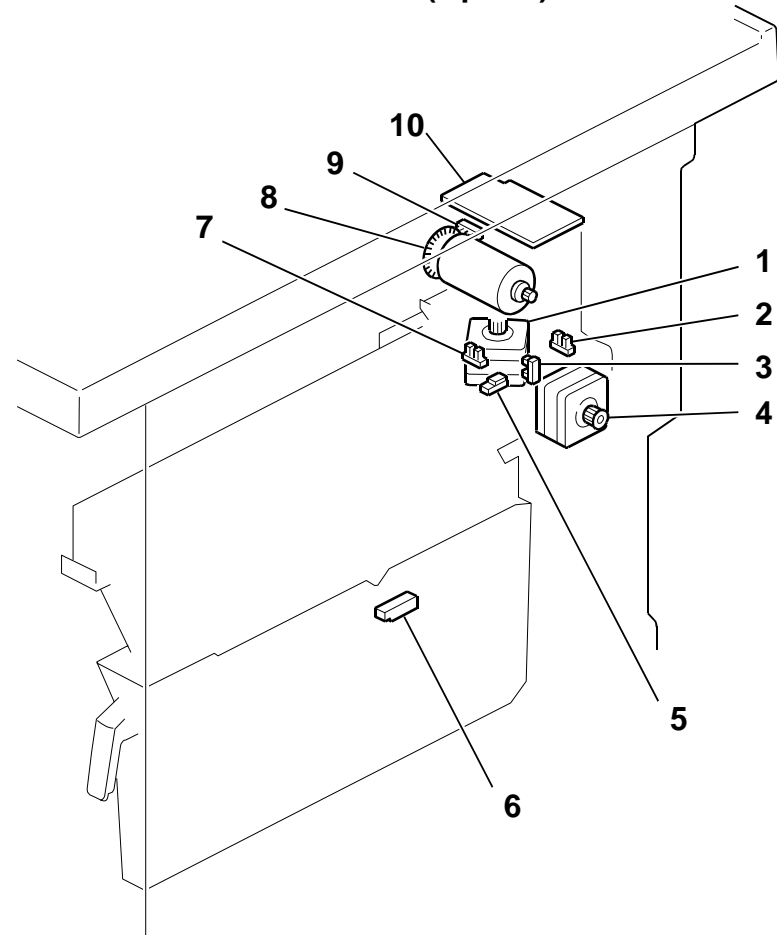


Fig-7

d7049907.wmf

Symbol	Index No.	Description	P to P
<b>PCBs</b>			
PCB1	Fig-1-3	Main Control Board	-
PCB2	Fig-7-10	Main Board (Punch Unit) (D706)	O10
<b>Sensors</b>			
S1	Fig-6-1	Tray Upper Limit Switch (D688)	B2
S2	Fig-5-4	Booklet Paper Sensor (Upper) (D688)	A1
S3	Fig-5-3	Booklet Adjustment HP Sensor (D688)	B2
S4	Fig-5-12	Booklet Guide Sensor (D688)	B1
S5	Fig-5-8	Booklet Bottom Fence HP Sensor (D688)	E2
S6	Fig-6-4	Bottom Paper Exit Sensor (D688)	D1
S7	Fig-6-3	Booklet Paper Full Sensor 1 (D688)	E1
S8	Fig-6-2	Booklet Paper Full Sensor 2 (D688)	F2
S9	Fig-6-5	Folding Blade Cam HP Sensor (D688)	D2
S10	Fig-5-6	Booklet Jogger HP Sensor (D688)	C1
S11	Fig-5-9	Booklet Paper Sensor (Lower) (D688)	E1
S12	Fig-3-6	Feed Out Guide HP Sensor	L1
S13	Fig-2-12	Horizontal Transport Sensor	O1
S14	Fig-2-13	Switchback Transport Sensor	J1
S15	Fig-2-14	Paper Transport Sensor	J2
S16	Fig-4-15	Shift Tray Lower Limit Sensor 1	G1
S17	Fig-2-5	Entrance Sensor	F2
S18	Fig-2-16	Lower Junction Gate HP Sensor	I1
S19	Fig-2-17	Shift Roller HP Sensor	I2
S20	Fig-2-15	Proof Tray Exit Sensor	K1
S21	Fig-2-4	Proof Tray Full Sensor	J2
S22	Fig-3-13	Shift Tray Exit Sensor	L1
S23	Fig-3-8	Stapler Movement HP Sensor	H2
S24	Fig-4-6	Trailing Edge Pressure Plate HP Sensor	N1
S25	Fig-3-1	Jogger HP Sensor	M1
S26	Fig-4-3	Corner Stapling Paper Sensor 1	O2
S27	Fig-4-4	Corner Stapling Paper Sensor 2	P1
S28	Fig-4-9	Feed Out Guide HP Sensor	P1
S29	Fig-4-14	Shift Tray Lower Limit Sensor 2	G2
S30	Fig-4-13	Shift Tray Lower Limit Sensor 3	H1
S31	Fig-3-5	Staple Tray Paper Sensor	K2
S32	Fig-3-11	Stacking Roller HP Sensor	N2
S33	Fig-3-10	Leading Edge Guide HP Sensor	L2
S34	Fig-4-5	Paper Exit Gate HP Sensor	P2
S35	Fig-4-7	Shift Tray Paper Sensor	N2
S36	Fig-4-12	Shift Tray Lower Limit Sensor 4	H2
S37	Fig-4-11	Shift Tray Lower Limit Sensor 5	H1
S38	Fig-7-7	Punch HP Sensor (D706)	M14
S39	Fig-7-9	Punch RPS Sensor(D706)	M15
S40	Fig-7-2	Punch Movement HP Sensor (D706)	N13
S41	Fig-7-3	Paper Position Side HP Sensor (D706)	O13
S42	Fig-7-6	Punch Hopper Full Sensor (D706)	L15
S43	Fig-7-5	Paper Position Side Sensor (D706)	L16

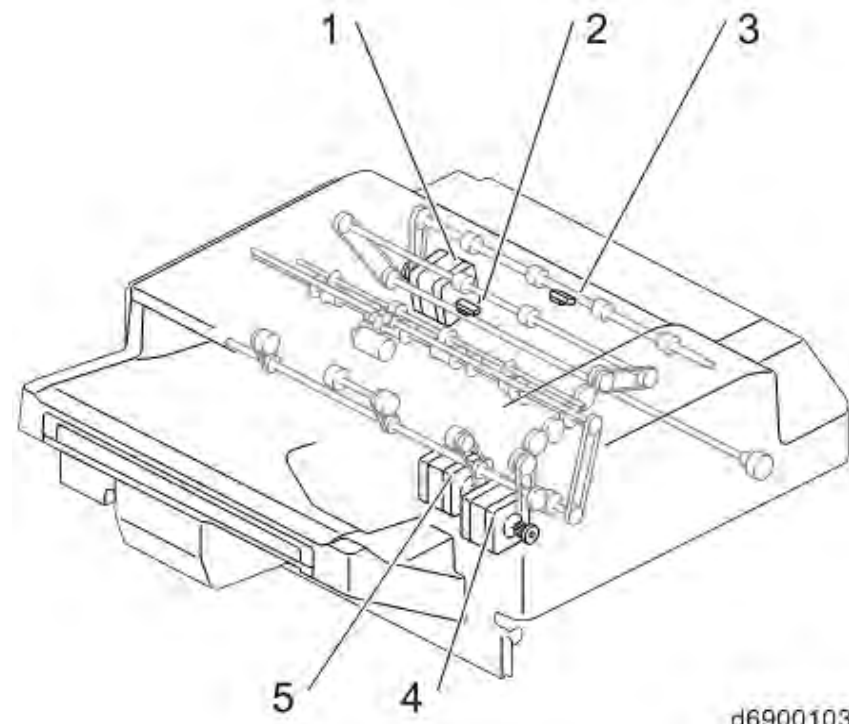
Symbol	Index No.	Description	P to P
<b>Motors</b>			
DCM1	Fig-1-5	Entrance Transport Motor	J22
DCM2	Fig-1-6	Horizontal Transport Motor	I22
DCM3	Fig-1-2	Middle Transport Motor	B12
DCM4	Fig-1-1	Tray Exit Motor	C12
DCM5	Fig-1-4	Pre Stack Transport Motor	H22
DCM6	Fig-3-12	Stacking Roller Motor	E12
DCM7	Fig-3-4	Feed Out Motor	D12
DCM8	Fig-4-10	Trailing Edge Pressure Plate Motor	E12
DCM9	Fig-1-7	Tray Shift Motor	G12
DCM10	Fig-3-7	Stapler	K21
DCM11	Fig-5-2	Movement Roller Transport Motor (D688)	B22
DCM12	Fig-5-10	Booklet Stapler Motor (D688)	C22
DCM13	Fig-7-8	Punch Drive Motor	M11
STM1	Fig-3-2	Jogger Motor	I12
STM2	Fig-2-3	Lower Junction Gate Motor	K12
STM3	Fig-2-1	Shift Motor	I13
STM4	Fig-4-1	Paper Exit Gate Motor	J12
STM5	Fig-4-16	Positioning Roller Motor	K12
STM6	Fig-3-9	Leading Edge Guide Motor	J13
STM7	Fig-3-3	Stapler Movement Motor	H12
STM8	Fig-5-1	Booklet Guide Motor (D688)	F22
STM9	Fig-6-6	Folding Transport Motor (D688)	E22
STM10	Fig-6-7	Press Folding Motor (D688)	D22
STM11	Fig-5-5	Booklet Jogger Motor (D688)	B22
STM12	Fig-5-7	Booklet Fence Motor (D688)	C22
STM13	Fig-7-1	Punch Drive Motor	N15
STM14	Fig-7-4	Paper Position Sensor Side Motor	O15
<b>LEDs</b>			
LED1	Fig-2-7	LED1	L23
LED2	Fig-2-11	LED2	L23
LED3	Fig-2-10	LED3	L23
LED4	Fig-2-8	LED4	M23
LED5	Fig-2-6	LED5	M20
LED6	Fig-5-11	Booklet Unit LED 1	M22
LED7	Fig-5-13	Booklet Unit LED 2	N22
LED8	Fig-5-14	Booklet Unit LED 3	N22
LED9	Fig-5-15	Booklet Unit LED 4	N22
LED10	Fig-5-16	Booklet Unit LED 5	O22
LED11	Fig-5-17	Booklet Unit LED 6	O22
<b>Solenoid</b>			
SOL1	Fig-2-2	Upper Junction Gate Solenoid	H13
<b>Switches</b>			
SW1	Fig-2-9	Front Door Switch	A21
SW2	Fig-4-2	Paper Exit Guide Limit Switch	O21
SW3	Fig-4-8	Tray Upper Limit Switch	A12

# D690 POINT TO POINT DIAGRAM

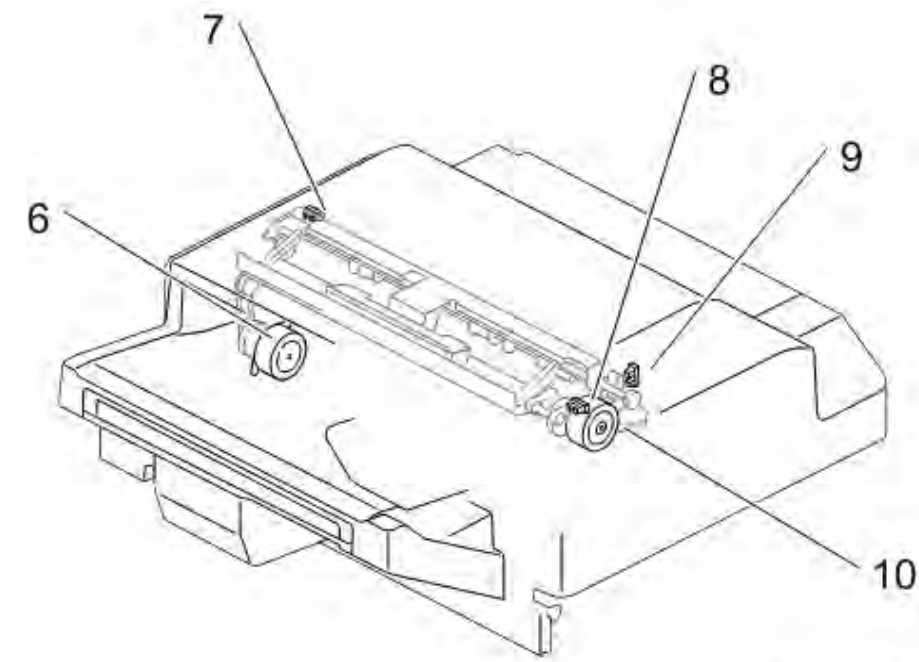


5. The Punch Unit is an option and they are D71617 (NA 3/2 holes), D71627 (EU 2/4 holes), and D71667 (EU 4-holes).  
 4. Suffix is omitted.  
 3. The color of connector with no indication is the natural color.  
 2. The type of harness side connector with no indication is press-connect type.  
 1. The UL style of electric wire with no indication is UL10272, AWG size is AWG24, and its color is purple/Bl.

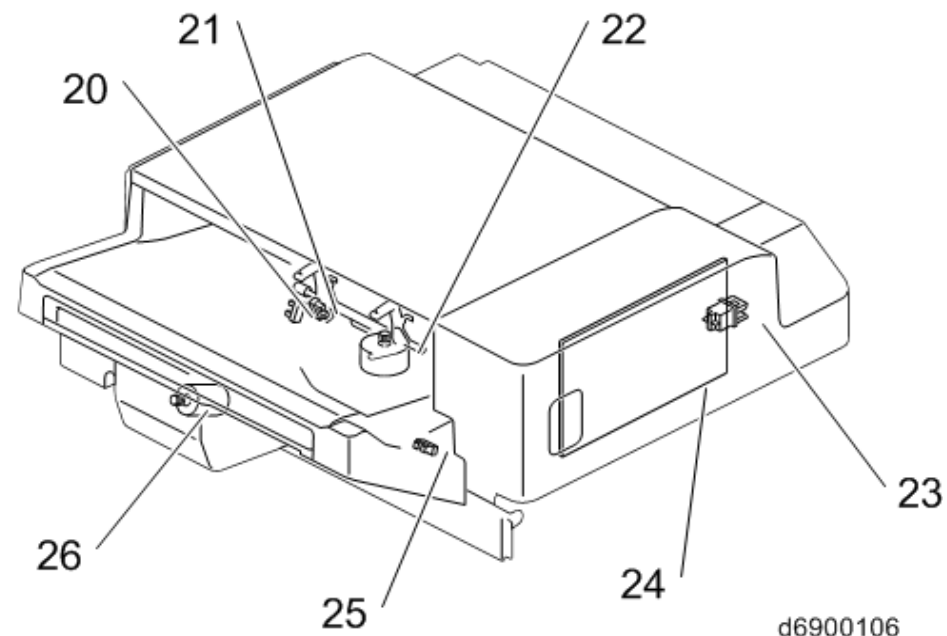
# D690 ELECTRICAL COMPONENT LAYOUT (1/3)



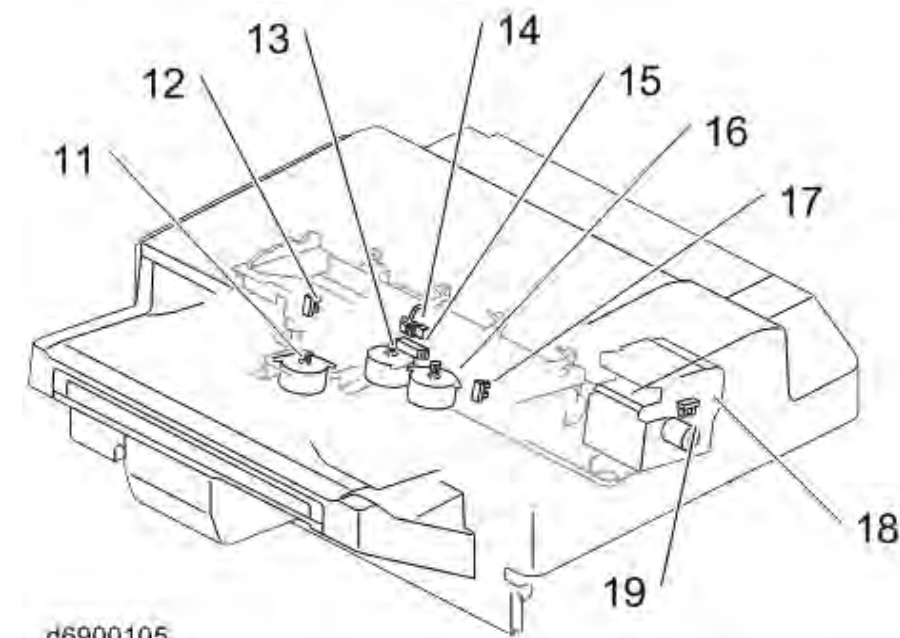
d6900103



d6900104



d6900106



d6900105

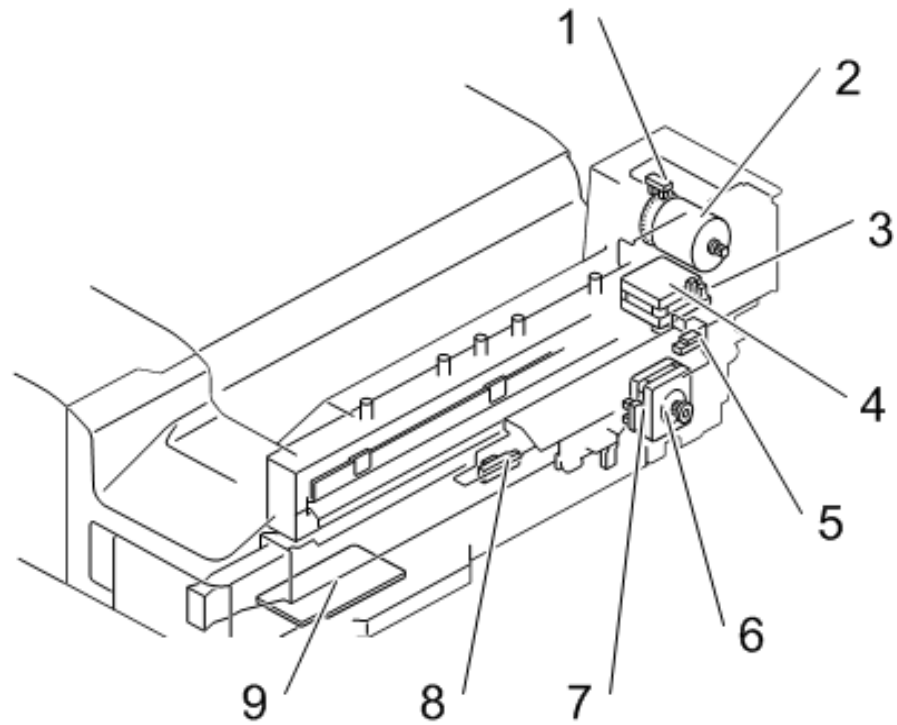


# D690 ELECTRICAL COMPONENT LAYOUT (2/3)

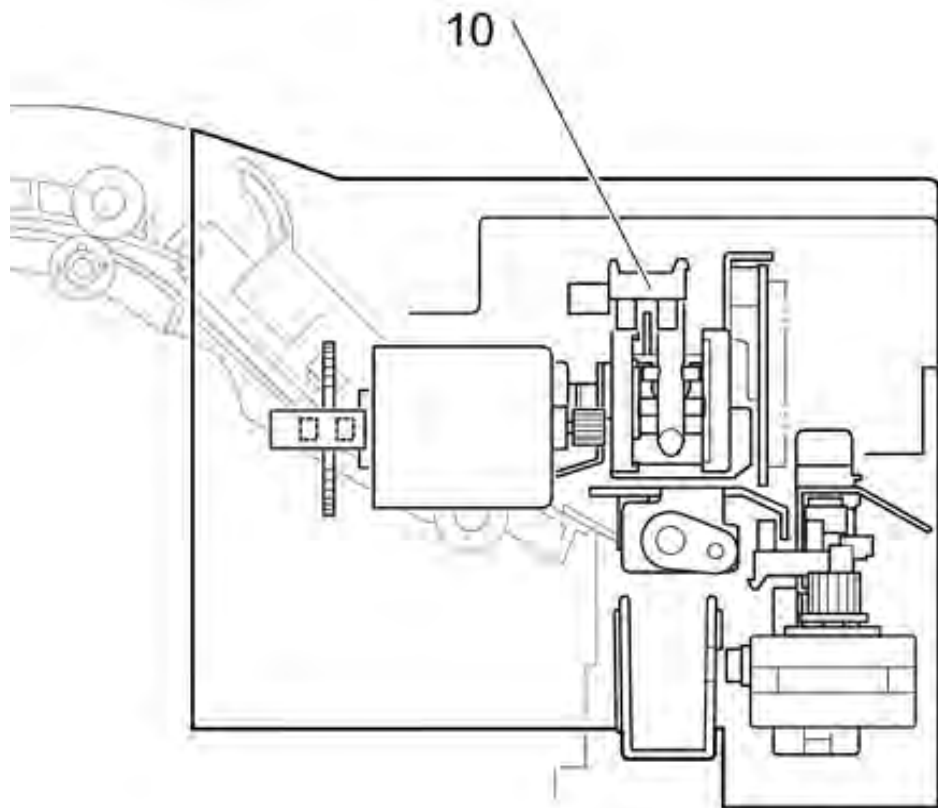
Motors			
Symbol	Index No.	Description	PtoP
M4	26	Tray Lift Motor	J15
M5	22	Paper Bail Motor	I15
M6	13	Jogger Fence Motor (rear)	H15
M7	17	Jogger Fence Motor (front)	H15
M8	11	Stapler Displacement Motor	G15
M9	6	Strike Roller Motor	G15
M10	1	Entrance Motor	F15
M11	19	Shift Motor	E15
M12	10	Paper Exit Guide Plate Motor	E15
M13	4	Transport Motor	D15
M14	5	Paper Output Motor	C15
Sensors			
Symbol	Index No.	Description	PtoP
S7	25	Paper Exit Full Sensor	G2
S8	8	Paper Output Guide Plate Home Position Sensor	F2
S9	7	Strike Roller Home Position Sensor	S2
S10	2	Transport Sensor	E2
S11	9	Shift Roller HP Sensor	E2
S12	18	Staple HP Sensor	D2
S13	3	Entrance Sensor	D2
S14	14	Paper Detection Sensor	D2
S15	12	Jogger Fence HPSensor (rear)	C2
S16	17	Jogger Fence HPSensor (front)	C2
S17	15	Staple Tray Jam Detection Sensor	B2
S18	20	Paper Bail Home Position Sensor	B2
S19	21	Paper Surface Detection Sensor	A2
FANs			
Symbol	Index No.	Description	PtoP
FAN1	-	FAN	F15
Switches			
Symbol	Index No.	Description	PtoP
SW1	23	Cover Open/Close Switch	A15
PCBs			
Symbol	Index No.	Description	PtoP
PCB1	24	Control Board	K11

# D690 ELECTRICAL COMPONENT LAYOUT (3/3)

## <D587: Punch Unit>



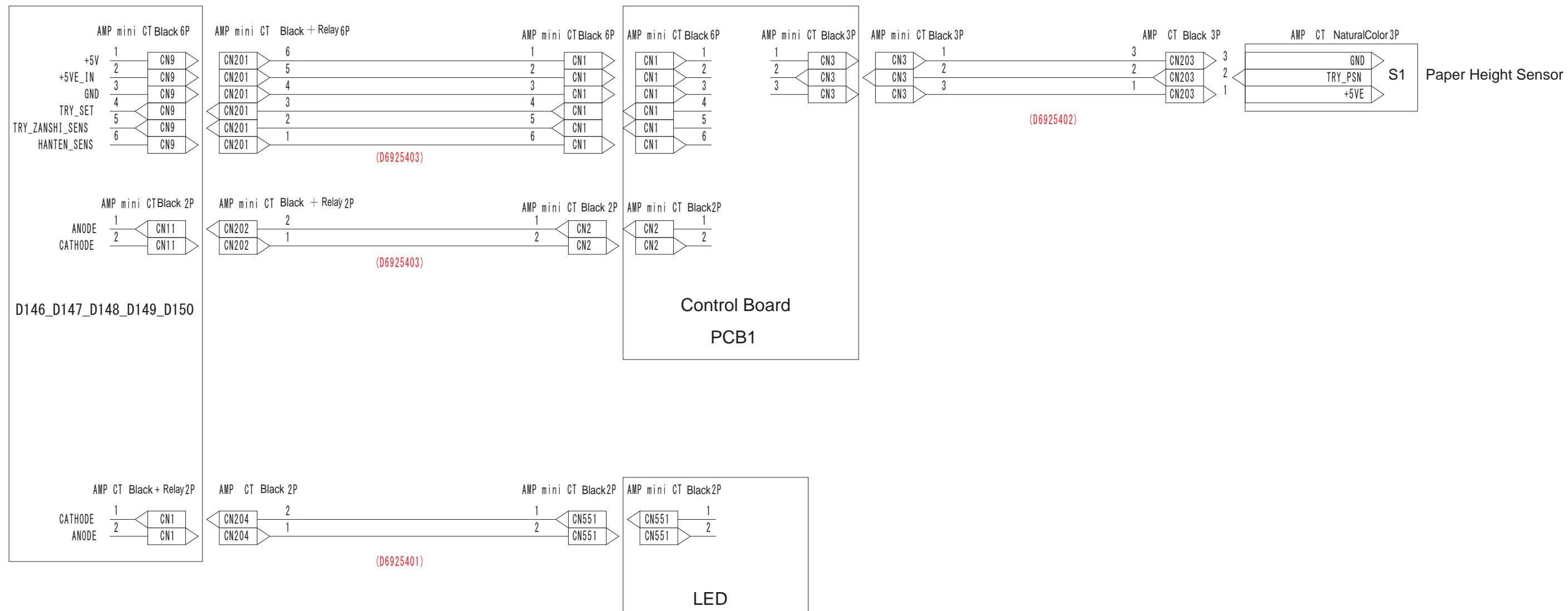
d7160201



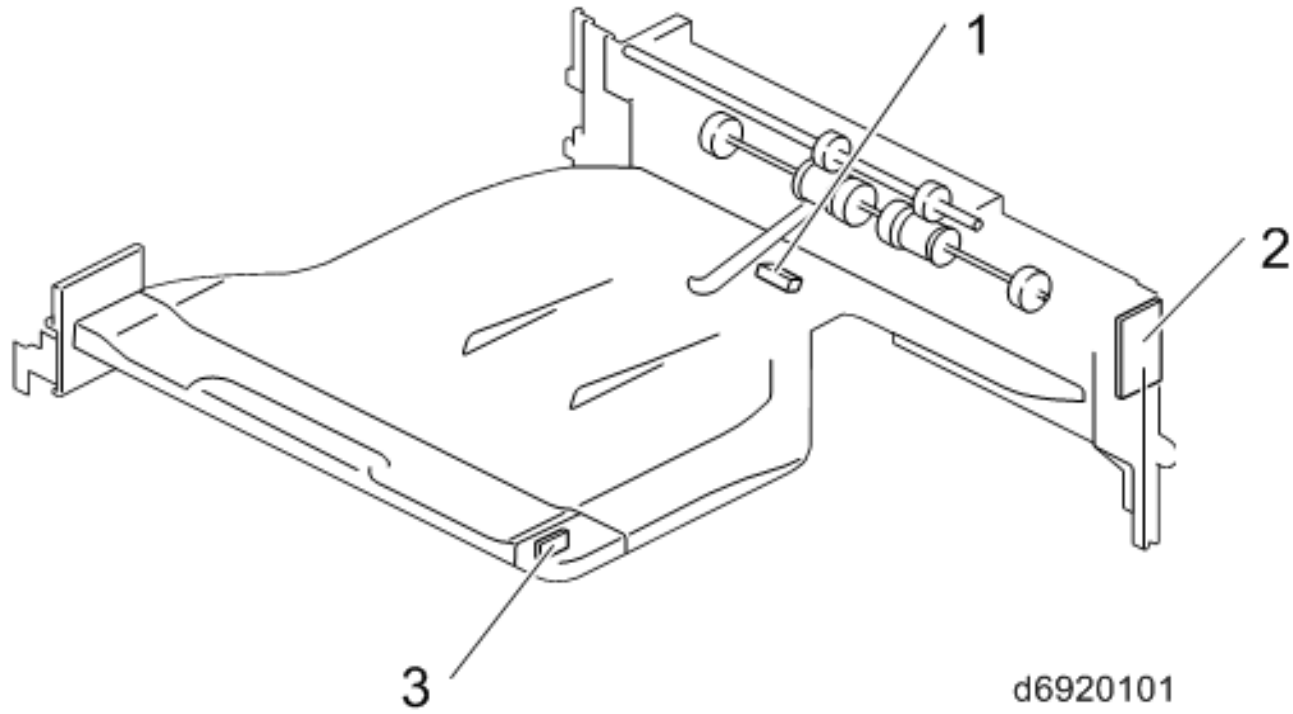
d1467000

Motors			
Symbol	Index No.	Description	PtoP
M1	4	Horizontal Registration Movement Unit	J2
M2	6	Horizontal Registration Detection Unit Motor	K2
M3	2	Punch Motor	K8
Sensors			
Symbol	Index No.	Description	PtoP
S1	5	Horizontal Registration Movement Unit Home Position Sensor	J2
S2	7	Horizontal Registration Detection Unit Home Position Sensor	K2
S3	1	Punch Unit Pulse Detection Sensor	I2
S4	10	Punch Unit Home Position Sensor	I2
S5	3	Horizontal Registration Sensor	H2
S6	8	Punch Hopper Full Sensor	H2
PCB			
Symbol	Index No.	Description	PtoP
PCB2	9	Punch Unit Control Board	K5

# D692 POINT TO POINT DIAGRAM



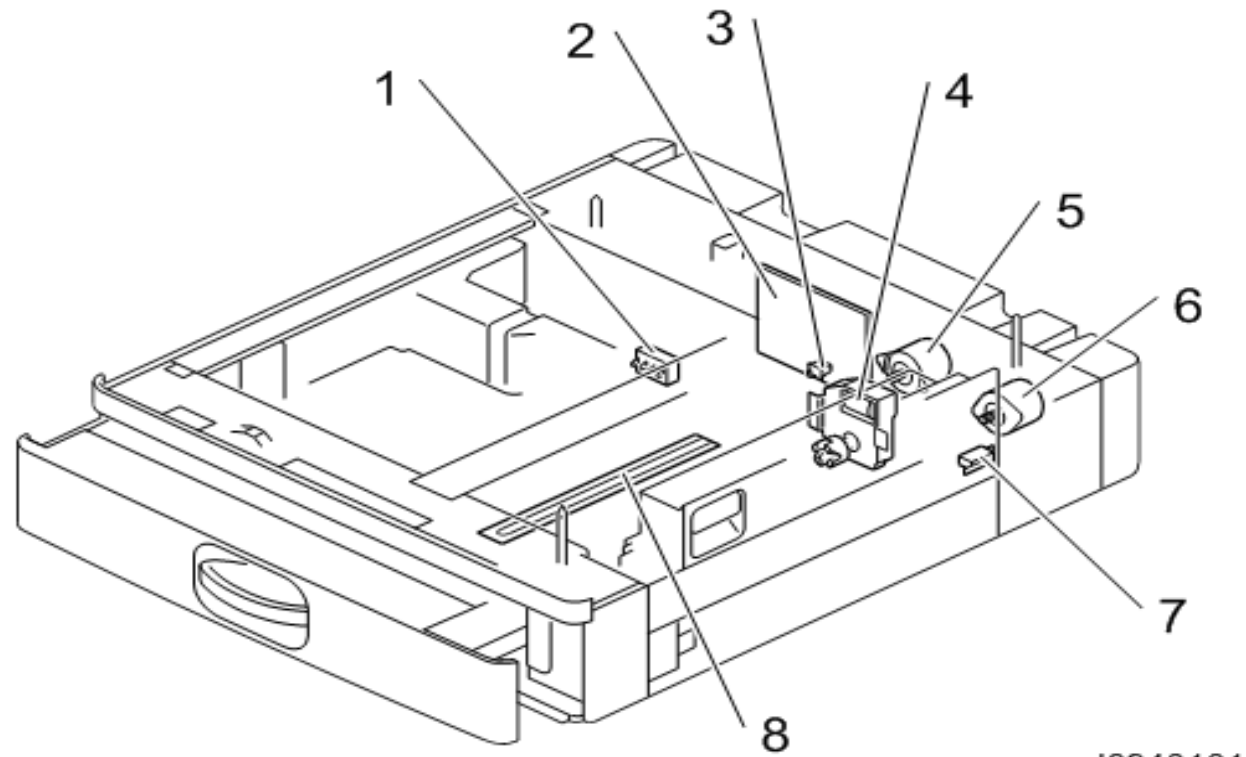
# D692 ELECTRICAL COMPONENT LAYOUT



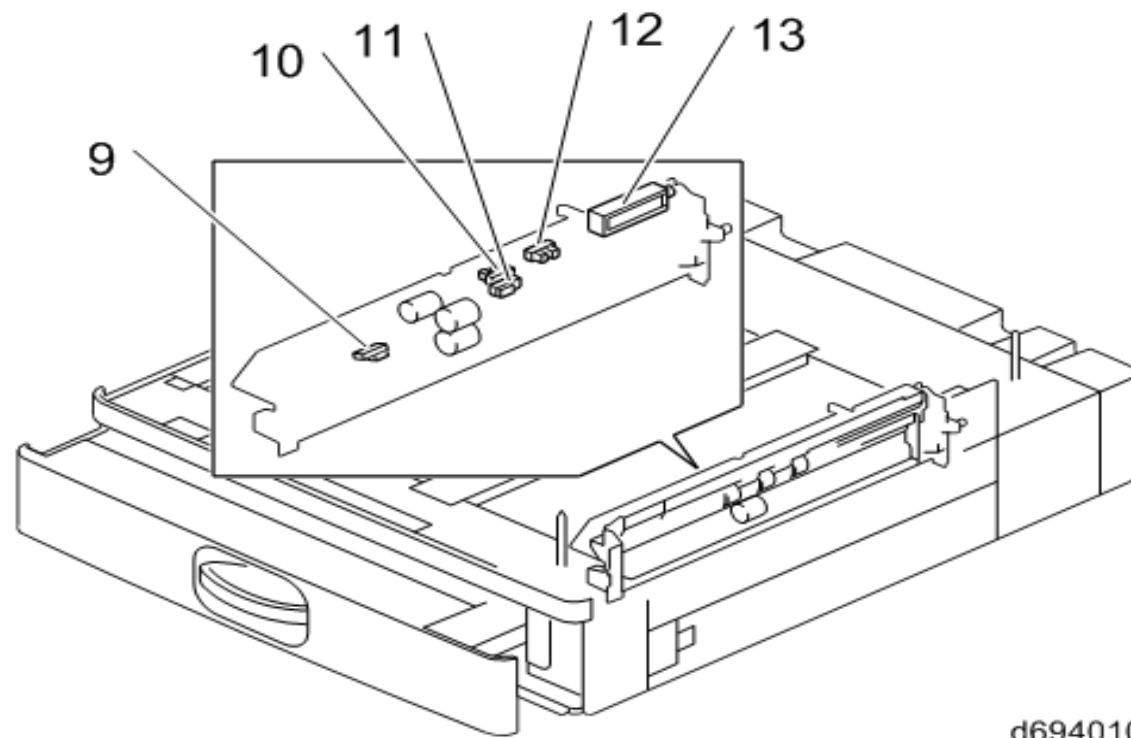
Sensors			
Symbol	Index No.	Description	PtoP
SN1	1	Paper Height Sensor	B7
PCB			
Symbol	Index No.	Description	PtoP
PCB1	2	Control Board	C4
LED			
Symbol	Index No.	Description	PtoP
LED	3	LED	E4



# D694 ELECTRICAL COMPONENT LAYOUT



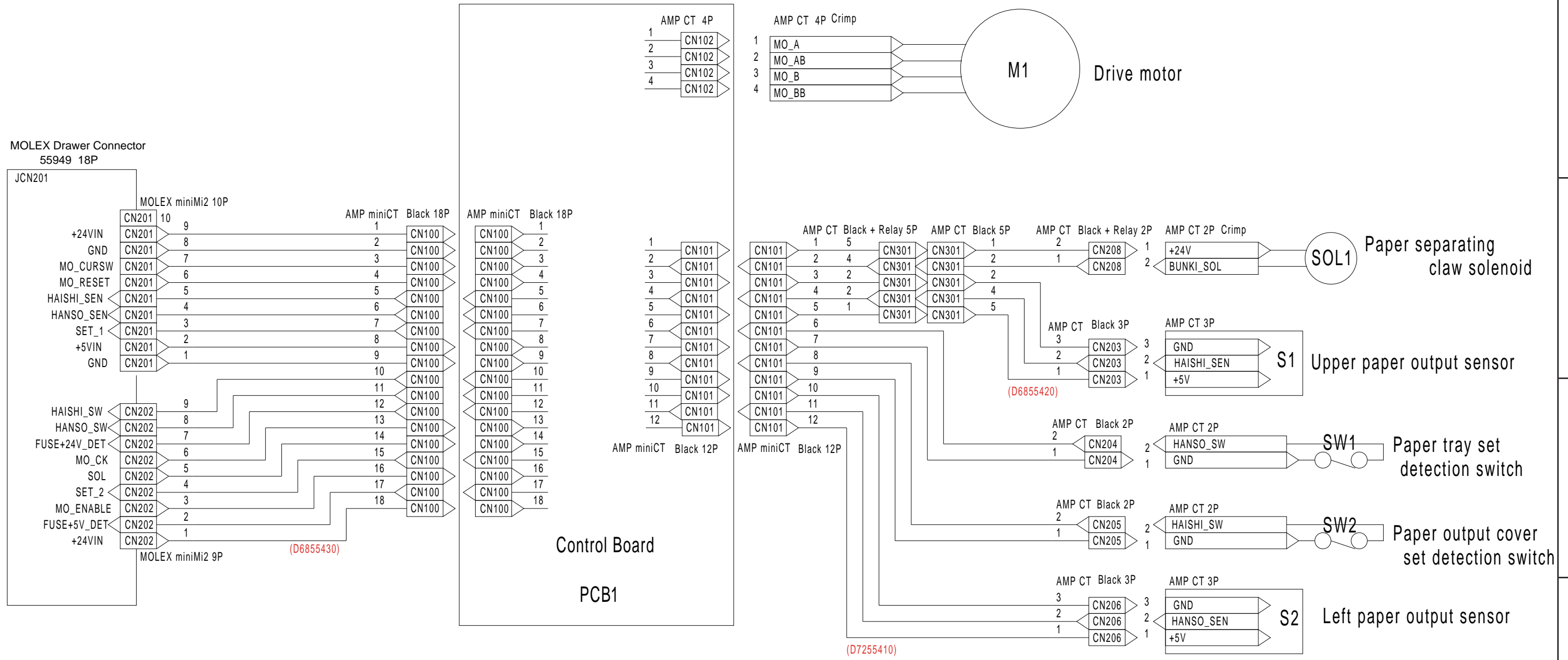
d6940101



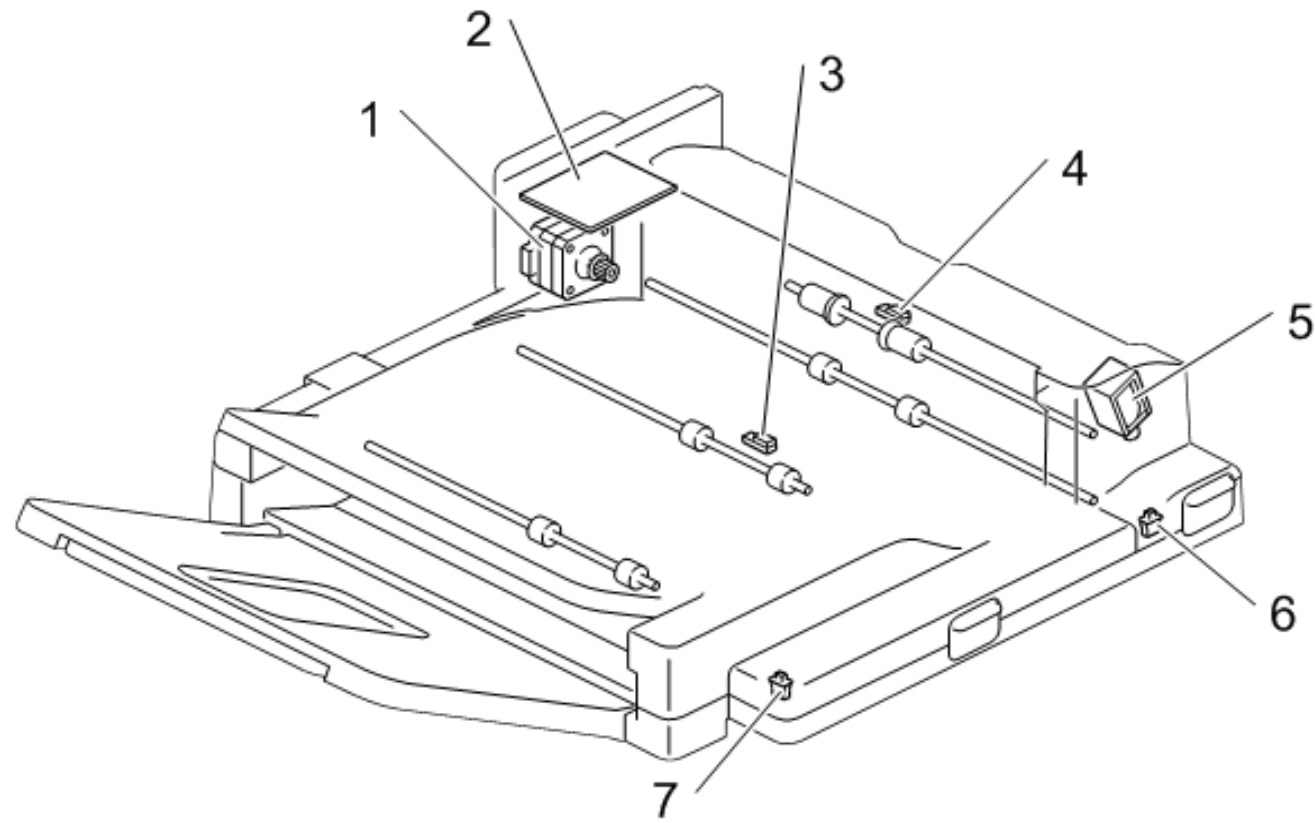
d6940102

Motors			
Symbol	Index No.	Description	PtoP
M1	6	Transport Motor	B7
M2	5	Paper Feed Motor	C7
M3	4	Tray Lift Motor	C7
Sensors			
Symbol	Index No.	Description	PtoP
S1	9	Paper Feed Sensor	D1
S2	11	Transport Sensor	D1
S3	10	Paper End Sensor	E1
S4	12	Limit Sensor	E1
Solenoids			
Symbol	Index No.	Description	PtoP
SOL1	13	Pickup Solenoid	D1
Switches			
Symbol	Index No.	Description	PtoP
SW1	1	Paper Size Detection Switch	D7
SW2	3	Tray Set Detection Switch	D7
SW3	7	Transport Cover Open/Close	E7
PCB			
Symbol	Index No.	Description	PtoP
PCB1	2	Bank Control Board	E4
Others			
Symbol	Index No.	Description	PtoP
HTR	8	Anti-Condensation Heater	C3

# D725 POINT TO POINT DIAGRAM



# D725 ELECTRICAL COMPONENT LAYOUT

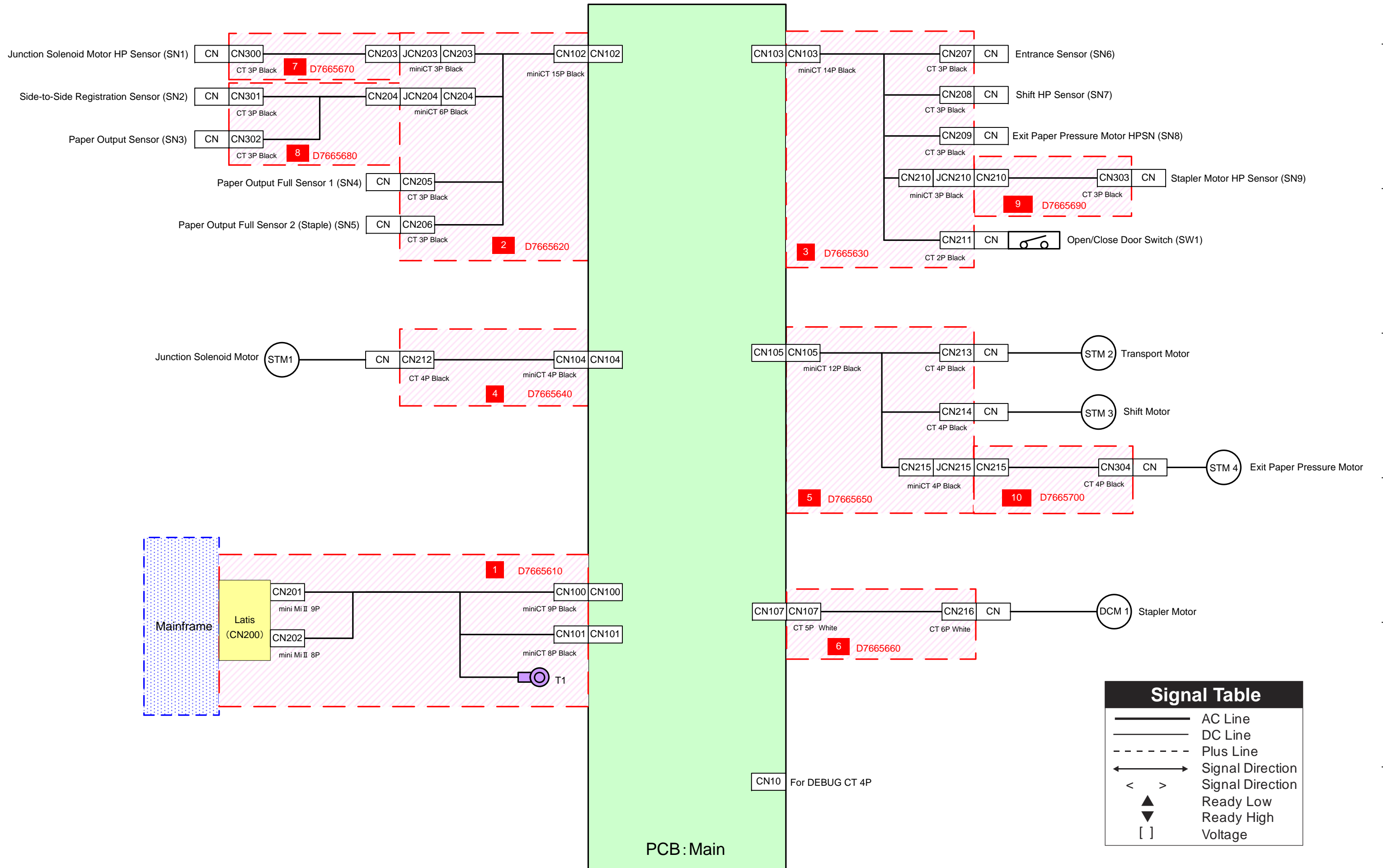


d7250101

Motors			
Symbol	Index No.	Description	PtoP
M1	1	Drive Motor	B6
Sensors			
Symbol	Index No.	Description	PtoP
S1	4	Upper Paper Output Sensor	C7
S2	3	Left Paper Output Sensor	E7
Solenoids			
Symbol	Index No.	Description	PtoP
SOL1	5	Paper Separating Claw Solenoid	C7
Switches			
Symbol	Index No.	Description	PtoP
SW1	7	Paper Tray Set Detection Switch	D7
SW2	6	Paper Output Cover Set Detection	D7
PCB			
Symbol	Index No.	Description	PtoP
PCB1	2	Control Board	D4



# D766 POINT TO POINT DIAGRAM

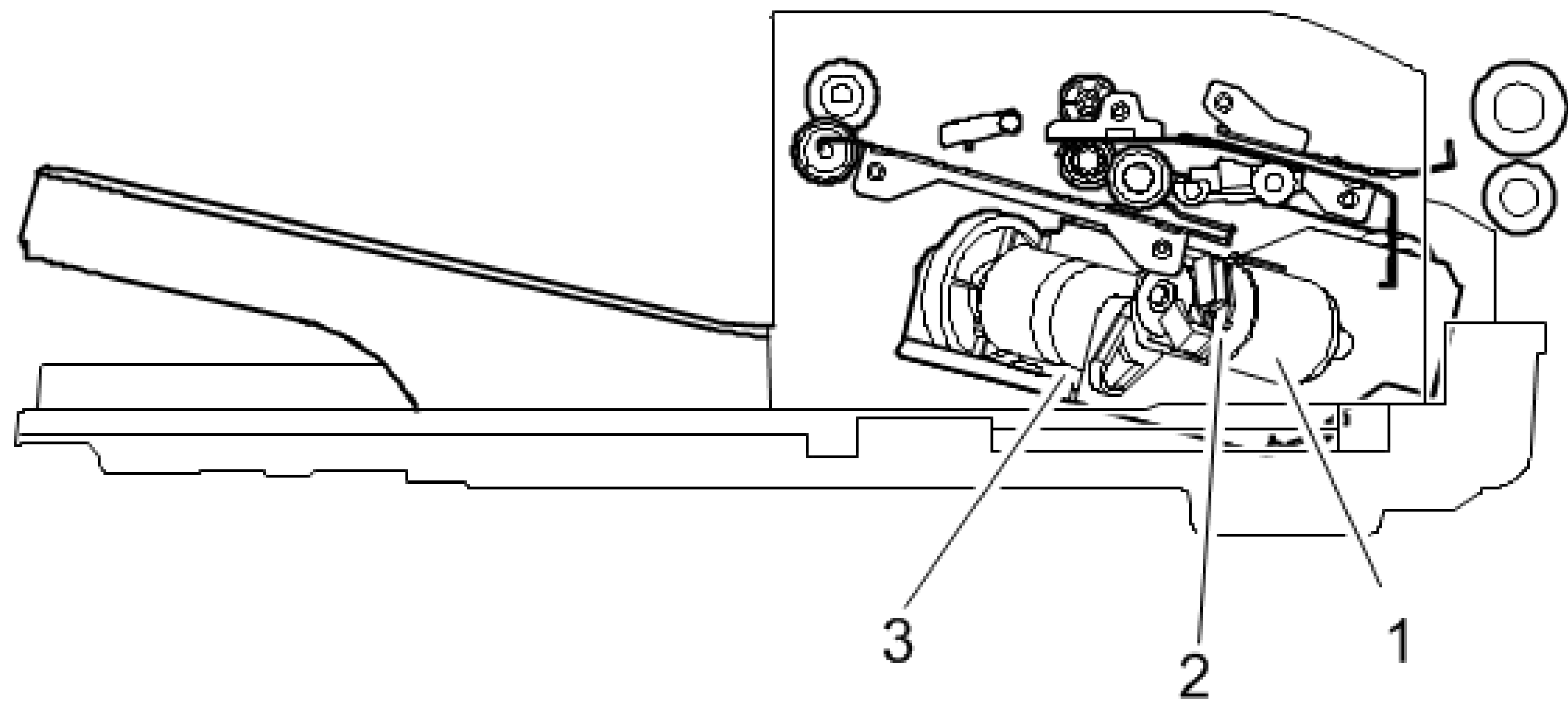


## D766 Harness Pin Assignment

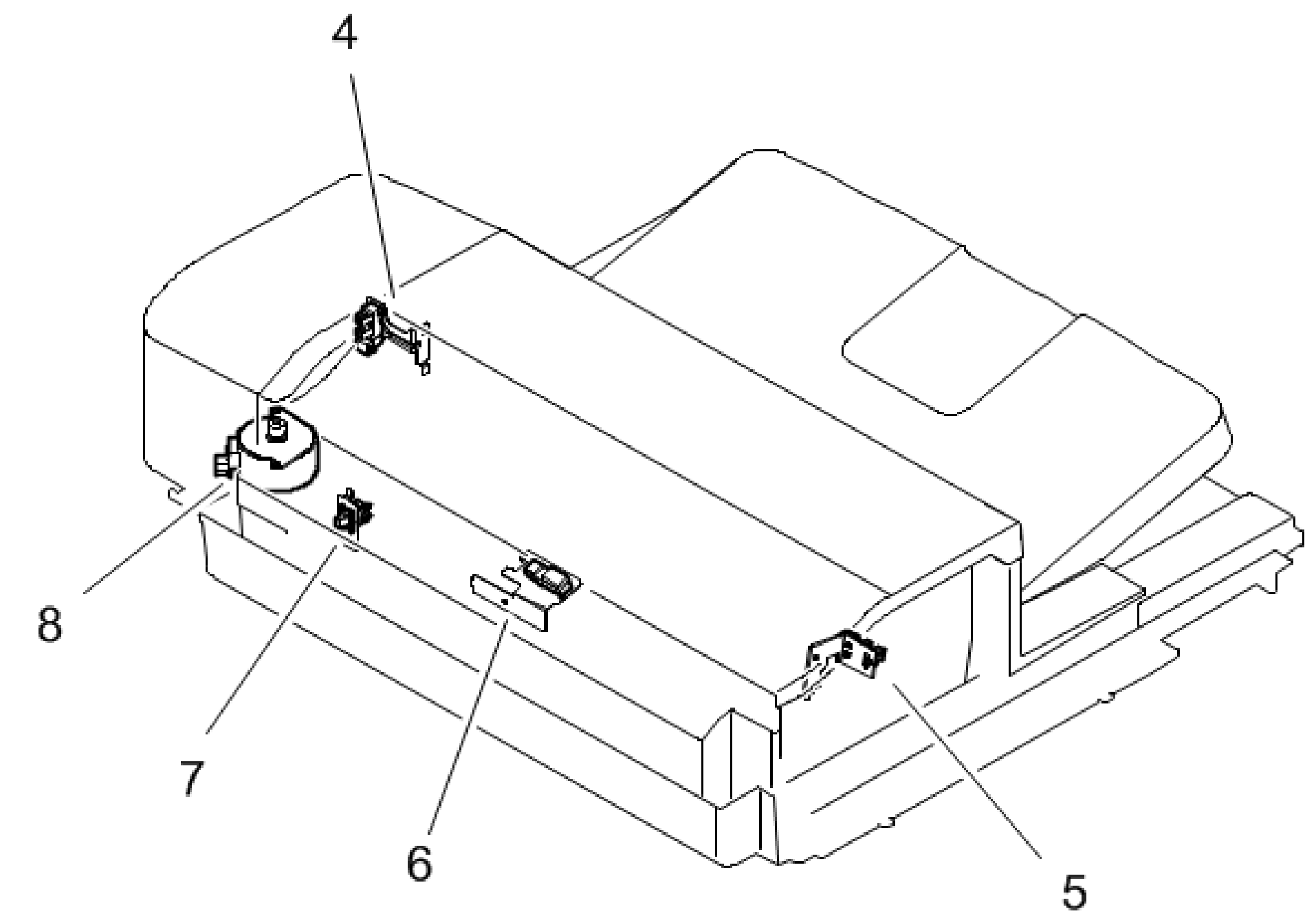
Harness No.	Connector (FROM)			Signal Information				Connector (TO)				
	No.	To Connector	Pin No.	Signal Name	Direction	L	H	No.	To Connector	Pin No.		
1	CN100	MAIN	1	N.C.				CN201	Mainframe	9		
			2	24V_PD						8		
			3	24V_PD						7		
			4	24V_PD						6		
			5	24V_PD						5		
			6	GND						4		
			7	GND						3		
			8	GND						2		
			9	GND						1		
	CN101	MAIN	1	GND				CN202	Mainframe	8		
			2	GND						7		
			3	N.C.						6		
			4	N.C.						5		
			5	RXD0	←					4		
			6	N.C.						3		
			7	TXD0	→					2		
8			N.C.				1					
T1	F.G.		F.G. (ground)					shield				
2	CN102	MAIN	1	GND: Junction Solenoid Motor HPSN				CN203	-	3		
			2	Vout: Junction Solenoid Motor HPSN	←	Not Detected	Detected			2		
			3	5V: Junction Solenoid Motor HPSN						1		
			4	GND: Side-to-Side Registration SN				CN204	-	6		
			5	Vout: Side-to-Side Registration SN	←	Not Detected	Detected			5		
			6	5V: Side-to-Side Registration SN						4		
			7	GND: Paper Output SN						3		
			8	Vout: Paper Output SN	←	Not Detected	Detected			2		
			9	5V: Paper Output SN						1		
			10	GND: Paper Output Full SN1				CN205	Paper Output Full SN1	3		
			11	Vout: Paper Output Full SN1	←	Not Detected	Detected			2		
			12	5V: Paper Output Full SN1						1		
			13	GND: Paper Output Full SN2 (Staple)						CN206	Paper Output Full SN2 (Staple)	3
			14	Vout: Paper Output Full SN2 (Staple)	←	Not Detected	Detected					2
			15	5V: Paper Output Full SN2 (Staple)				1				
3	CN103	MAIN	1	GND: Entrance SN				CN207	Entrance SN	3		
			2	Vout: Entrance SN	←	Not Detected	Detected			2		
			3	5V: Entrance SN						1		
			4	GND: Shift M HPSN				CN208	Shift M HPSN	3		
			5	Vout: Shift M HPSN	←	Not Detected	Detected			2		
			6	5V: Shift M HPSN				CN209	Exit Paper Pressure Motor HPSN	1		
			7	GND: Exit Paper Pressure Motor HPSN						3		
			8	Vout: Exit Paper Pressure Motor HPSN	←	Not Detected	Detected			2		
			9	5V: Exit Paper Pressure Motor HPSN						1		
			10	GND: Stapler M HPSN						CN210	-	3
			11	Vout: Stapler M HPSN	←	Not Detected	Detected					2
			12	5V: Stapler M HPSN								1
			13	Open/Close Door SW	←	Close	Open			CN211	Open/Close Door SW	2
			14	GND				1				
4	CN104	MAIN	1	Junction Solenoid Motor A Relative	→			CN212	Junction Solenoid Motor	4		
			2	Junction Solenoid Motor AB Relative	→					3		
			3	Junction Solenoid Motor B Relative	→					2		
			4	Junction Solenoid Motor BB Relative	→					1		
5	CN105	MAIN	1	Transport M A Relative	→			CN213	Transport Motor	4		
			2	Transport M AB Relative	→					3		
			3	Transport M B Relative	→					2		
			4	Transport M BB Relative	→					1		
			5	Shift M A Relative	→			CN214	Shift Motor	4		
			6	Shift M AB Relative	→					3		
			7	Shift M B Relative	→					2		
			8	Shift M BB Relative	→					1		
			9	Exit Paper Pressure Motor A Relative	→			CN215	-	4		
			10	Exit Paper Pressure Motor AB Relative	→					3		
			11	Exit Paper Pressure Motor B Relative	→					2		
			12	Exit Paper Pressure Motor BB Relative	→					1		

Harness No.	Connector (FROM)			Signal Information				Connector (TO)		
	No.	To Connector	Pin No.	Signal Name	Direction	L	H	No.	To Connector	Pin No.
6	CN107	MAIN	1	Stapler Motor M-	→			CN216	Stapler Motor	6
			2	Stapler Motor M+	→					5
			3	5V						4
			4	GND						3
			5	Stapler Motor ENC	←					2
				N.C.						1
7	CN203	MAIN	1	GND: Junction Solenoid Motor HPSN				CN300	Junction Solenoid Motor HPSN	3
			2	Vout: Junction Solenoid Motor HPSN	←	Not Detected	Detected			2
			3	5V: Junction Solenoid Motor HPSN						1
8	CN204	MAIN	1	GND: Side-to-Side Registration SN				CN301	Side-to-Side Registration SN	3
			2	Vout: Side-to-Side RegistrationSN	←	Not Detected	Detected			2
			3	5V: Side-to-Side RegistrationSN						1
			4	GND: Paper Output SN				CN302	Paper Output SN	3
			5	Vout: Paper Output SN	←	Not Detected	Detected			2
			6	5V: Paper Output SN						1
9	CN210	MAIN	1	GND: StaplerM HPSN				CN303	Stapler M HPSN	3
			2	Vout: StaplerM HPSN	←	Not Detected	Detected			2
			3	5V: StaplerM HPSN						1
10	CN215	MAIN	1	Exit Paper Pressure Motor A Relative	→			CN304	Exit Paper Pressure Motor	4
			2	Exit Paper Pressure Motor M AB Relative	→					3
			3	Exit Paper Pressure Motor B Relative	→					2
			4	Exit Paper Pressure Motor BB Relative	→					1

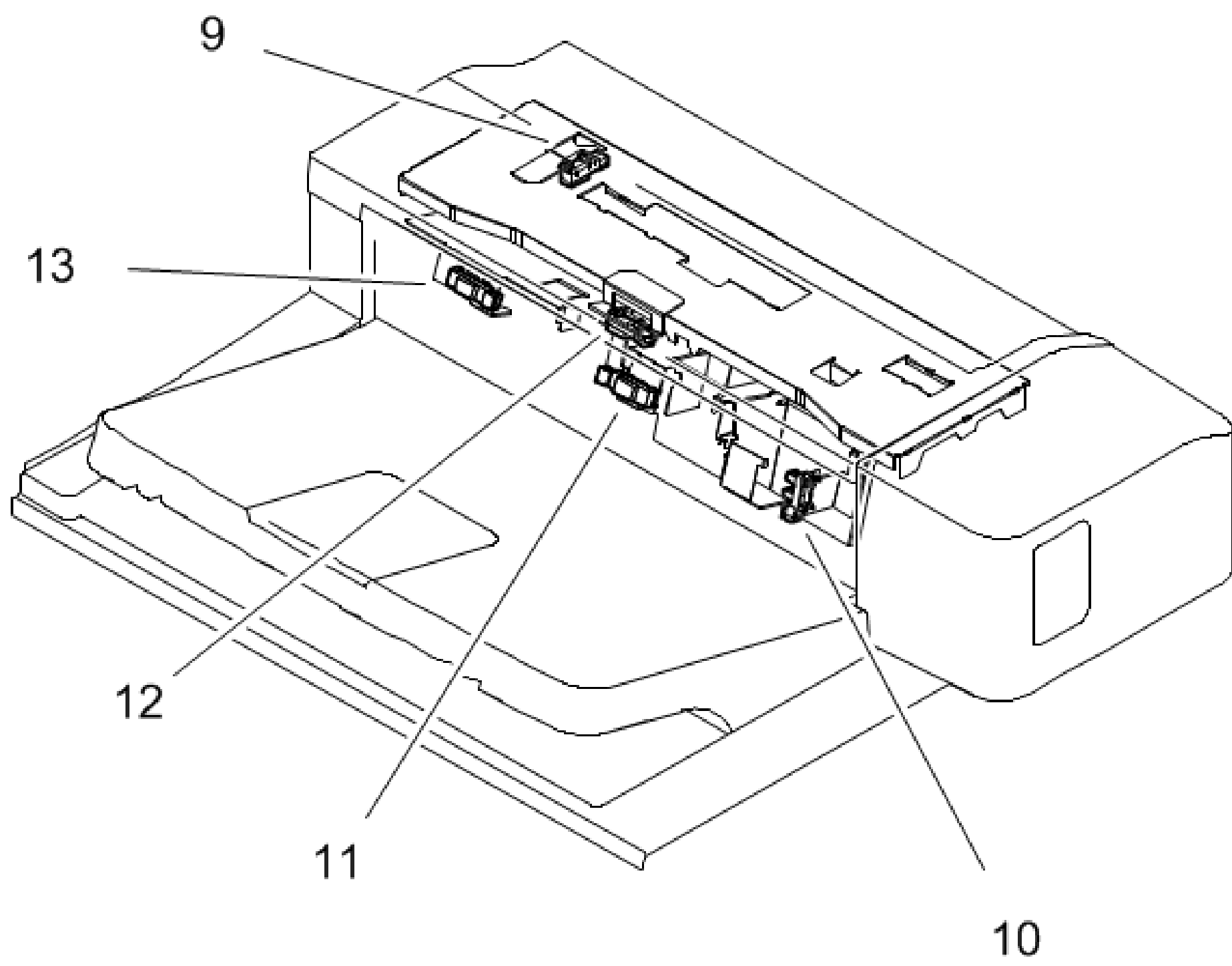
# D766 ELECTRICAL COMPONENT LAYOUT (1/2)



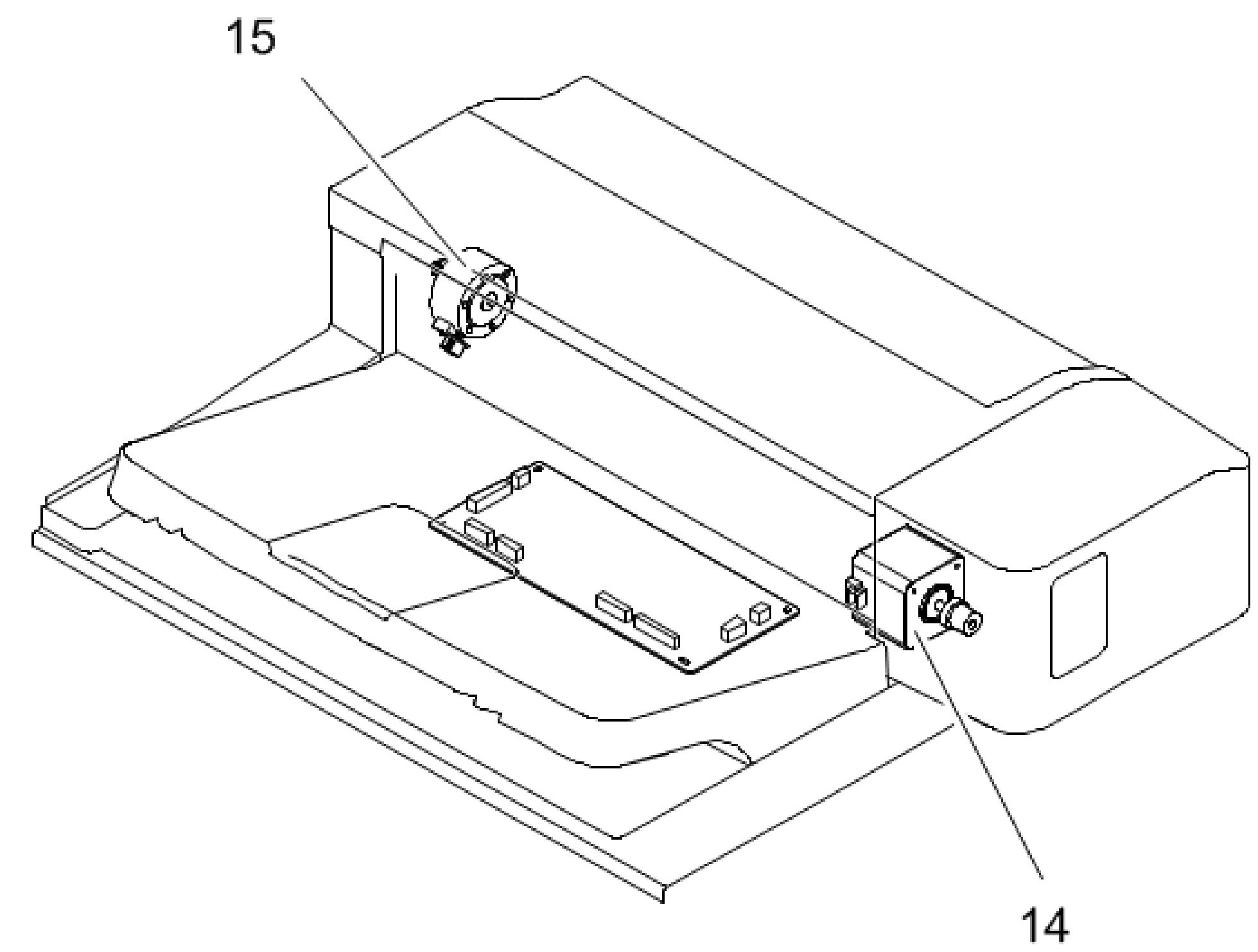
d766f0001



d766f0002



d766f0003

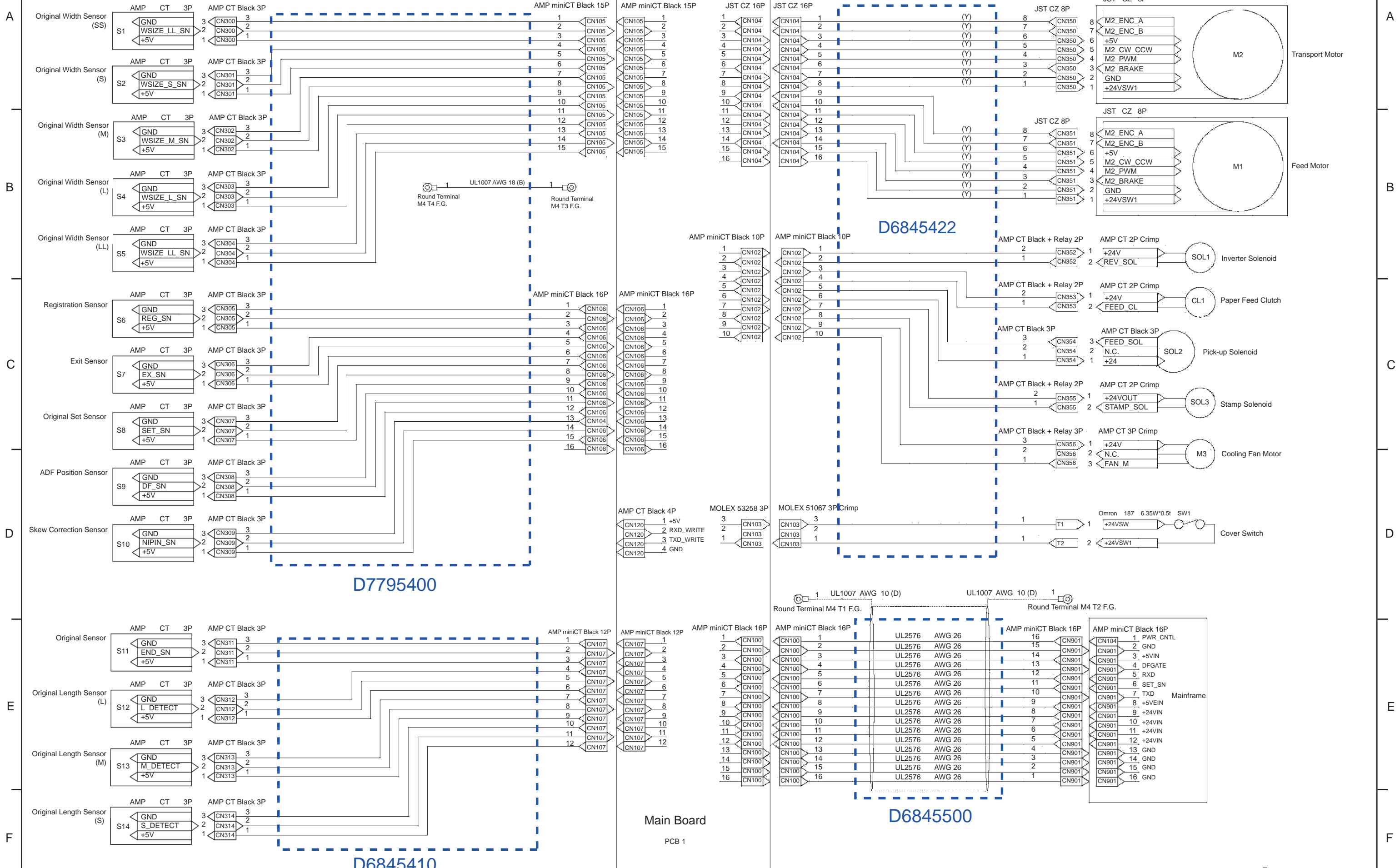


d766f0004

## D766 ELECTRICAL COMPONENT LAYOUT (2/2)

<b>Motors</b>			
<b>Symbol</b>	<b>Index No.</b>	<b>Description</b>	<b>PtoP</b>
STM1	15	Junction Solenoid Motor	D3
STM2	14	Transport Motor	D8
STM3	8	Shift Motor	D8
STM4	3	Exit Paper Pressure Motor	D9
DCM1	1	Stapler Motor	E8
<b>Sensors</b>			
<b>Symbol</b>	<b>Index No.</b>	<b>Description</b>	<b>PtoP</b>
SN1	5	Junction Solenoid Motor HP Sensor	B2
SN2	9	Side-to-Side Registration Sensor	B2
SN3	12	Paper Output Sensor	B2
SN4	11	Paper Output Full Sensor 1	B3
SN5	13	Paper Output Full Sensor 2 (Staple)	C3
SN6	6	Entrance Sensor	B8
SN7	4	Shift HP Sensor	B8
SN8	10	Exit Paper Pressure Motor HP Sensor	B8
SN9	2	Stapler Motor HP Sensor	B9
<b>Switches</b>			
<b>Symbol</b>	<b>Index No.</b>	<b>Description</b>	<b>PtoP</b>
SW1	7	Open/Close Door SW	C8

# D779 POINT TO POINT DIAGRAM



D7795400

D6845422

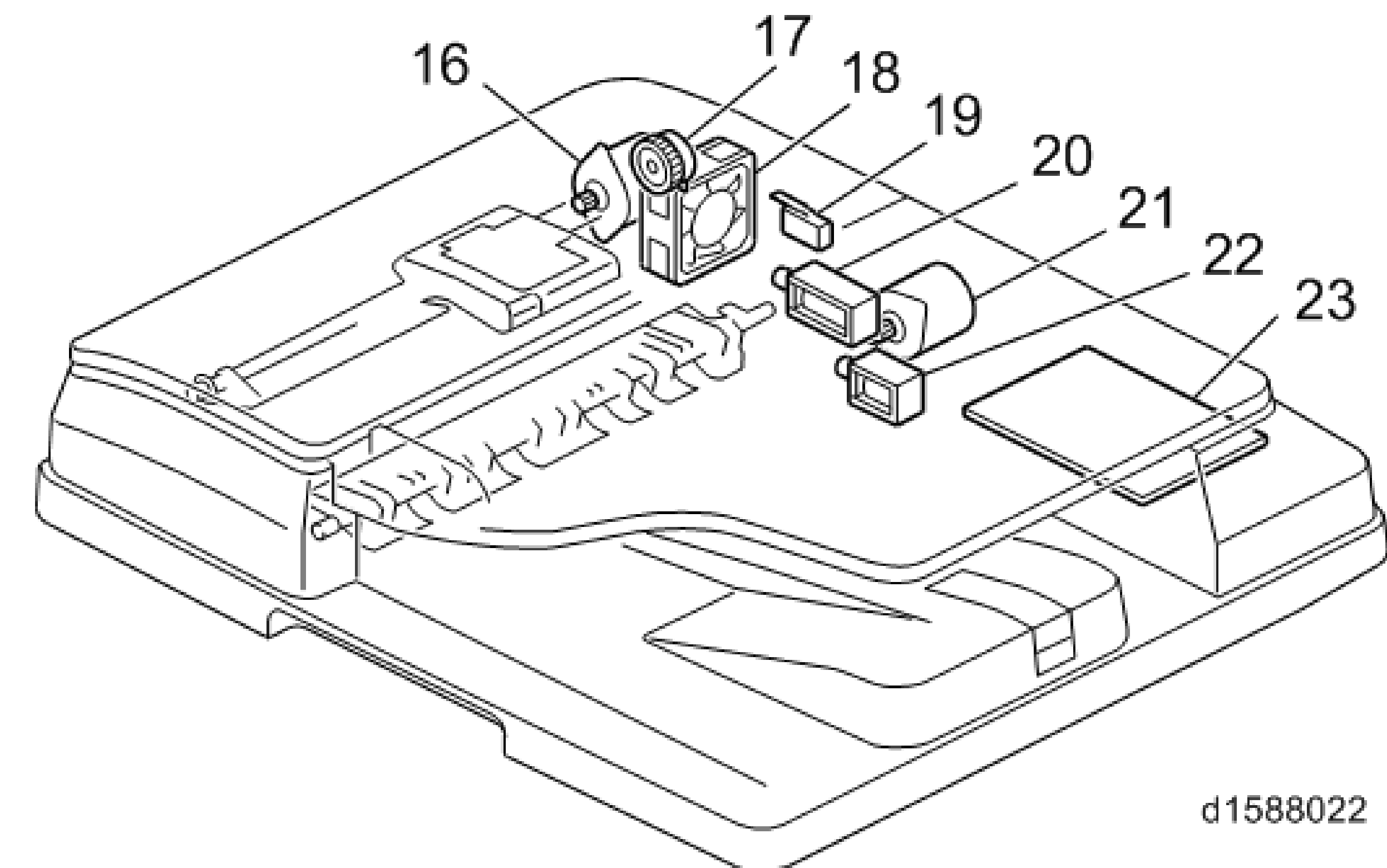
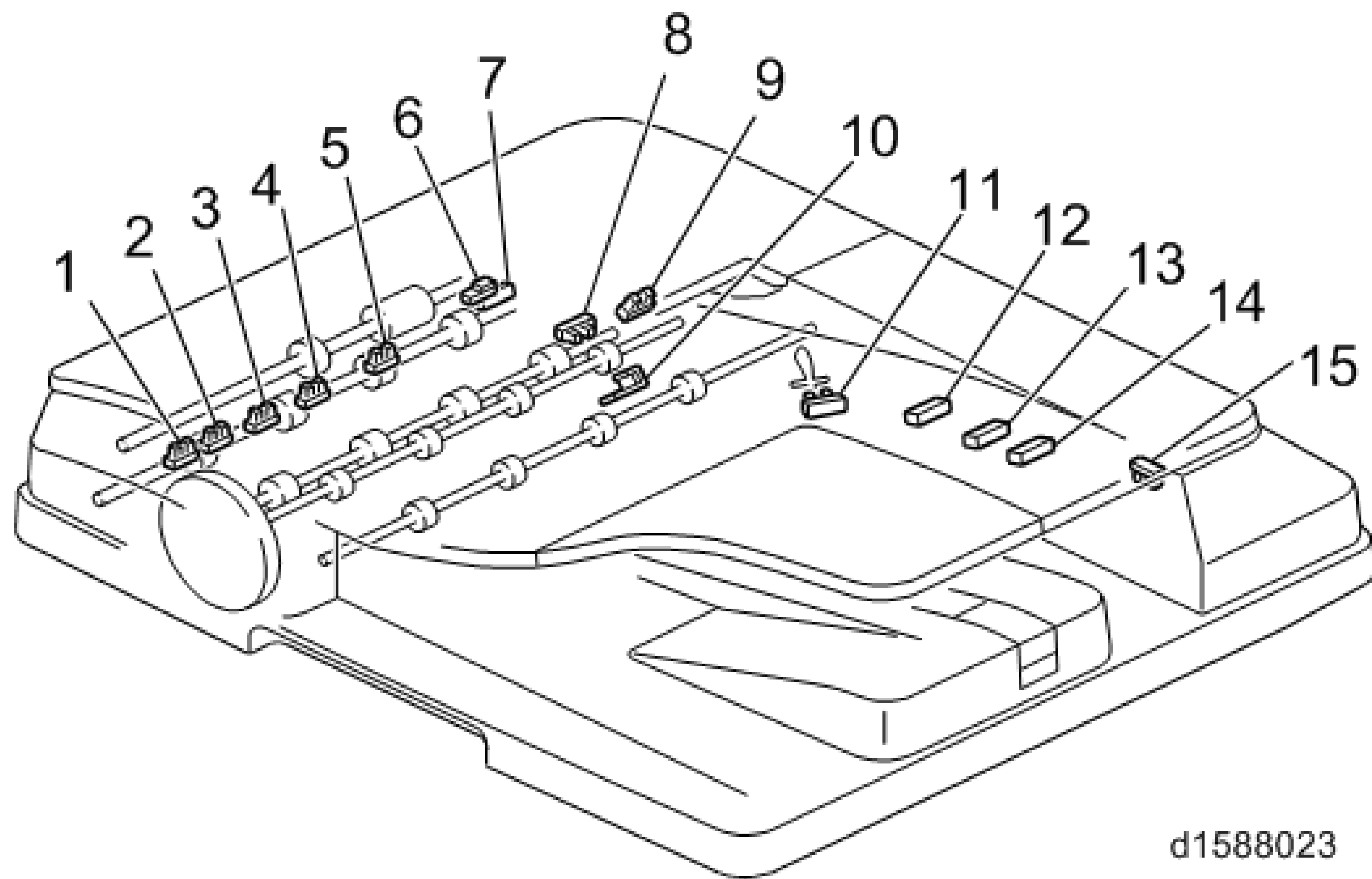
D6845410

D6845500

Main Board  
PCB 1

Mainframe

# D779 ELECTRICAL COMPONENT LAYOUT



Motors			
Symbol	Index No.	Description	PtoP
M1	21	Feed Motor	B8
M2	16	Transport Motor	A8
M3	18	Cooling Fan Motor	D7
Sensors			
Symbol	Index No.	Description	PtoP
S1	5	Original Width Sensor (SS)	A1
S2	4	Original Width Sensor (S)	A1
S3	3	Original Width Sensor (M)	B1
S4	2	Original Width Sensor (L)	B1
S5	1	Original Width Sensor (LL)	B1
S6	7	Registration Sensor	C1
S7	8	Exit Sensor	C1
S8	9	Original Set Sensor	C1
S9	15	ADF Position Sensor	D1
S10	5	Original Width Sensor (SS)	D1
S11	11	Original Sensor	E1
S12	14	Original Length Sensor (L)	E1
S13	13	Original Length Sensor (M)	E1
Solenoids			
Symbol	Index No.	Description	PtoP
SOL1	22	Inverter Solenoid	B7
SOL2	20	Pick-up Solenoid	C7
SOL3	10	Stamp Solenoid	C7
Clutch			
Symbol	Index No.	Description	PtoP
CL1	17	Paper Feed Clutch	C7
Switches			
Symbol	Index No.	Description	PtoP
SW1	19	Cover Switch	
PCB			
Symbol	Index No.	Description	PtoP
PCB1	23	Main Board	F4





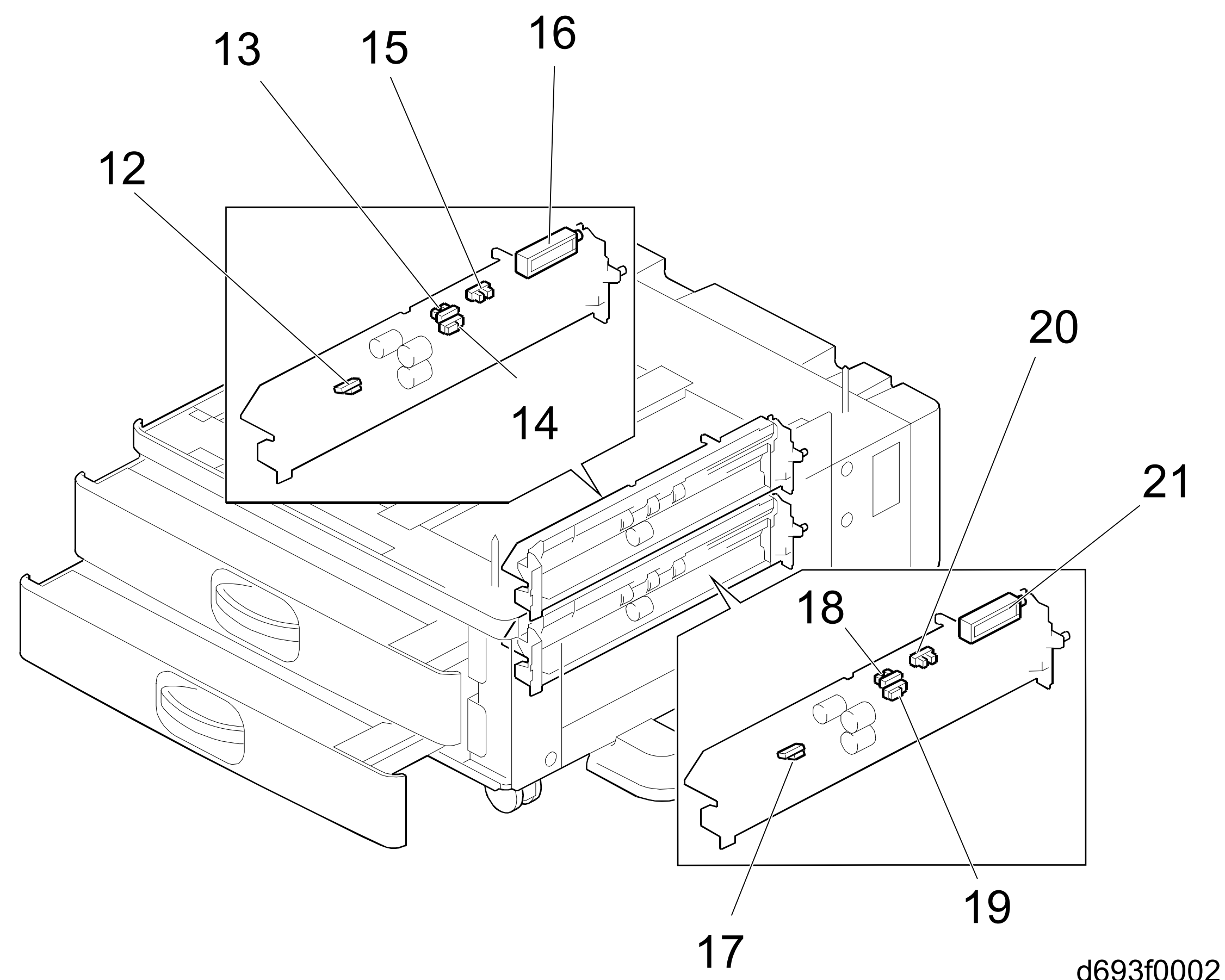
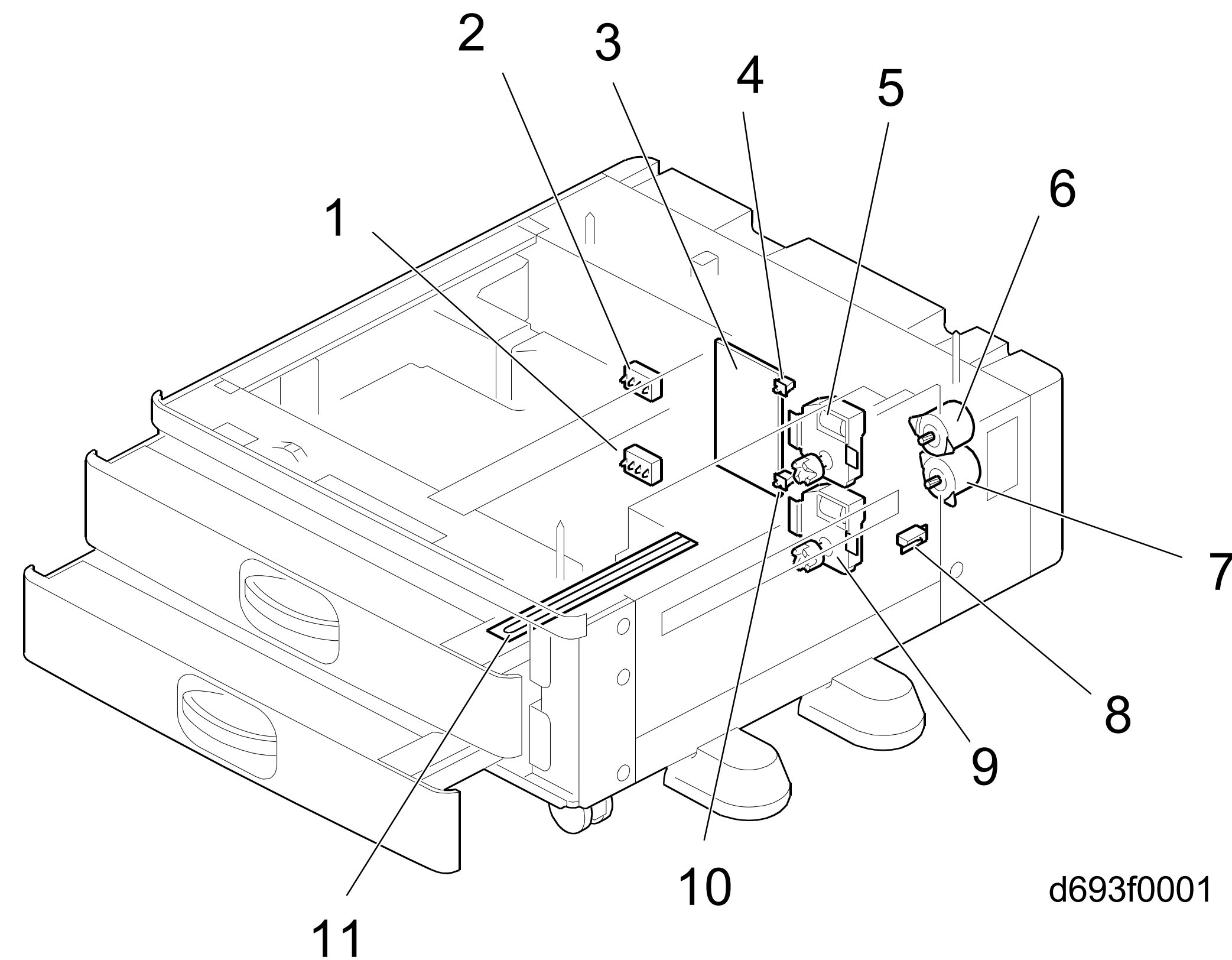
## D787 Harness Pin Assignment

Connector Information			Signal Information	
No.	Connector	Pin No.	Signal Name	Use
CN101	MOLEX miniMi2 14P Upper ASAP I/F	1	TXD2	ASAP-I/F Transmission
		2	RXD2	ASAP-I/F Reception
		3	SGND	SGND
		4	SGND	SGND
		5	5VIN	5V Power Supply
		6	5VIN	5V Power Supply
		7	PGND	PGND
		8	PGND	PGND
		9	PGND	PGND
		10	PGND	PGND
		11	24VIN	24V Power Supply
		12	24VIN	24V Power Supply
		13	24VIN	24V Power Supply
		14	24VIN	24V Power Supply
CN102	AMP miniCT 14P Black Lower ASAP I/F	1	RXD3	ASAP-I/F Transmission
		2	TXD3	ASAP-I/F Reception
		3	SGND	SGND
		4	SGND	SGND
		5	5VIN	5V Power Supply
		6	5VIN	5V Power Supply
		7	PGND	PGND
		8	PGND	PGND
		9	PGND	PGND
		10	PGND	PGND
		11	24VIN	24V Power Supply
		12	24VIN	24V Power Supply
		13	24VIN	24V Power Supply
		14	24VIN	24V Power Supply
CN103	AMP miniCT 17P Black Sensor Input 1	1	24V	24V Power Supply
		2	SOL1	SOL1 Drive
		3	GND	GND
		4	S1	Sensor IN_S1
		5	5V	5V
		6	GND	GND
		7	S2	Sensor IN_S2
		8	5V	5V
		9	GND	GND
		10	S3	Sensor IN_S3
		11	5V	5V
		12	GND	GND
		13	S4	Sensor IN_S4
		14	5V	5V
		15	N.C.	N.C.
		16	N.C.	N.C.
		17	N.C.	N.C.
CN104	AMP CT 8P Black Sensor Input 4	1	S15	Sensor IN_S15
		2	S16	Sensor IN_S16
		3	S17	Sensor IN_S17
		4	GND	GND
		5	S18	Sensor IN_S18
		6	GND	GND
		7	S22	Sensor IN_S22
		8	N.C.	N.C.
CN106	AMP CT 7P Black Sensor Input 3	1	S11	Sensor IN_S11
		2	S12	Sensor IN_S12
		3	S13	Sensor IN_S13
		4	GND	GND
		5	S14	Sensor IN_S14
		6	GND	GND
		7	S21	Sensor IN_S21

Connector Information			Signal Information	
No.	Connector	Pin No.	Signal Name	Use
CN107	AMP miniCT 18P Black Sensor Input 2	1	24V	24V Power Supply
		2	SOL2	SOL2 Drive
		3	GND	GND
		4	S6	Sensor IN_S6
		5	5V	5V
		6	GND	GND
		7	S7	Sensor IN_S7
		8	5V	5V
		9	GND	GND
		10	S8	Sensor IN_S8
		11	5V	5V
		12	GND	GND
		13	S9	Sensor IN_S9
		14	5V	5V
		15	N.C.	N.C.
		16	N.C.	N.C.
		17	N.C.	N.C.
		18	N.C.	N.C.
CN109	JST CZ 8P Transport Motor (Drive)	1	M1_ENC_A	
		2	M1_ENC_B	
		3	5V	5V Power Supply
		4	M1_CW_CCW	
		5	M1_PWM	
		6	M1_BRAKE	
		7	GND	GND
		8	24VSW	24V Power Supply
CN110	MOLEX 3.5mm pitch 3P Cover Open/Close Detection	1	24V	24V Power Supply
		2	N.C.	N.C.
		3	24VSW	24VSW Power Supply
CN112	JST CZ 9P Paper Feed Motor (Drive)	1	M2_ENC_A	
		2	M2_ENC_B	
		3	5V	5V Power Supply
		4	M2_CW_CCW	
		5	M2_PWM	
		6	M2_BRAKE	
		7	GND	GND
		8	24VSW	24V Power Supply
		9	N.C.	N.C.
CN113	AMP miniCT 5P Black Tray Lift Motor 1 (Drive)	1	S5	Sensor IN_S5
		2	GND	GND
		3	S10	Sensor IN_S6
		4	M3-	Lift 1M-
		5	M3+	Lift 1M+
CN115	AMP miniCT 6P Black Tray Lift Motor 2 (Drive)	1	S20	Sensor IN_S20
		2	GND	GND
		3	S19	Sensor IN_S19
		4	M4-	Lift 2M-
		5	M4+	Lift 2M+
		6	N.C.	N.C.



# D787 ELECTRICAL COMPONENT LAYOUT



Motors			
Symbol	Index No.	Description	PtoP
M1	7	Transport Motor	C15
M2	6	Paper Feed Motor	D15
M3	5	Tray Lift Motor 1	D15
M4	9	Tray Lift Motor 2	E15
Sensors			
Symbol	Index No.	Description	PtoP
S1	12	Paper Feed Sensor 1	F1
S2	14	Transport Sensor 1	G1
S3	13	Paper End Sensor 1	G1
S4	15	Limit Sensor 1	H1
S6	17	Paper Feed Sensor 2	I1
S7	19	Transport Sensor 2	I1
S8	18	Paper End Sensor 2	J1
S9	20	Limit Sensor 2	J1
Switches			
Symbol	Index No.	Description	PtoP
SW1	2	Paper Size Detection Switch 1	F15
SW2	1	Paper Size Detection Switch 2	G15
SW3	4	Tray Set Detection Switch 1	G15
SW4	10	Tray Set Detection Switch 2	H15
SW5	8	Transport Cover Open/Close Switch	I15
Solenoids			
Symbol	Index No.	Description	PtoP
SOL1	16	Pick-up Solenoid 1	F1
SOL2	21	Pick-up Solenoid 2	H1
PCB			
Symbol	Index No.	Description	PtoP
PCB1	3	Bank Control Board	K9
Others			
Symbol	Index No.	Description	PtoP
H1	11	Dehumidifying heater	D6