

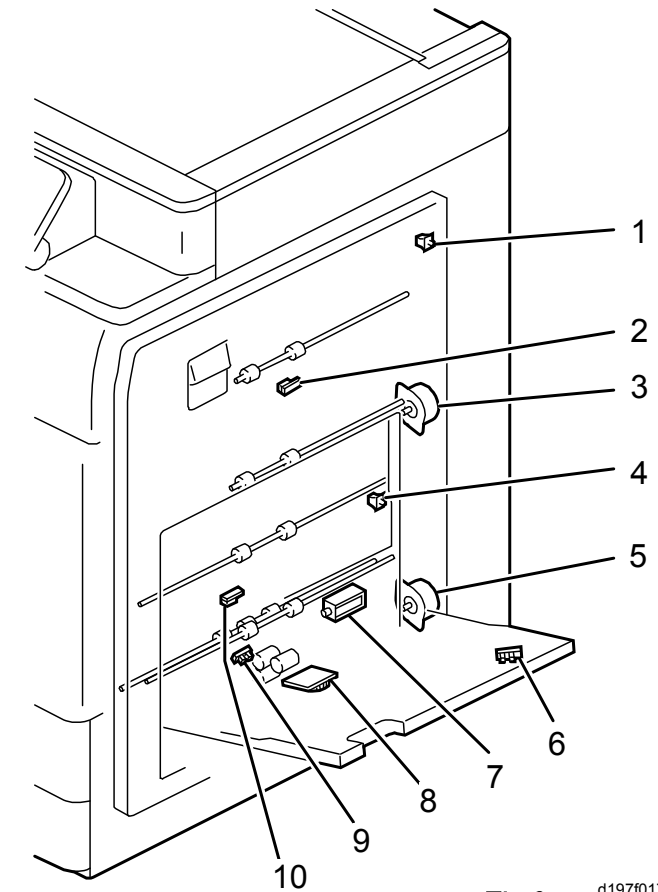
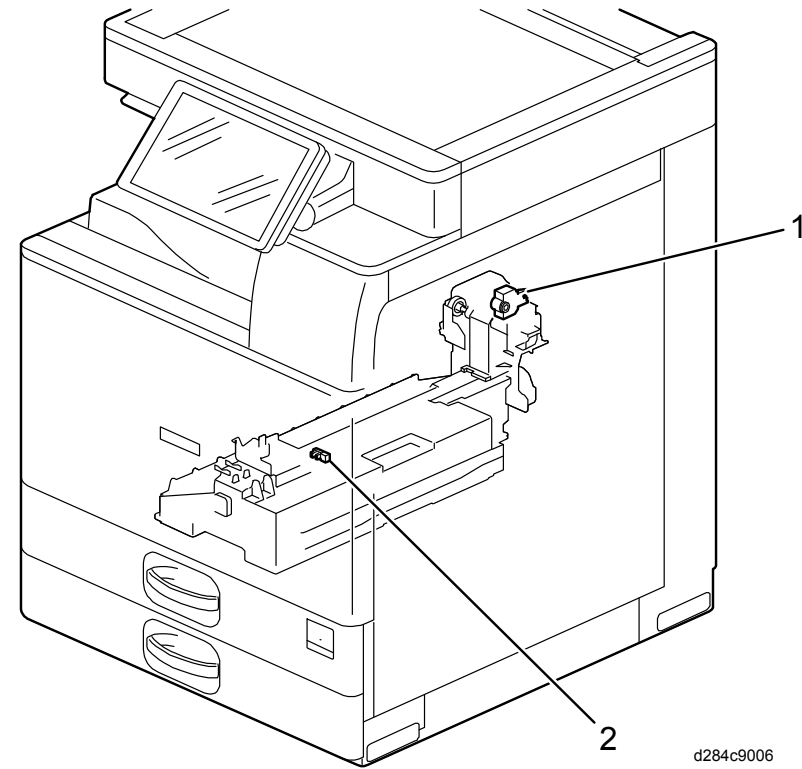
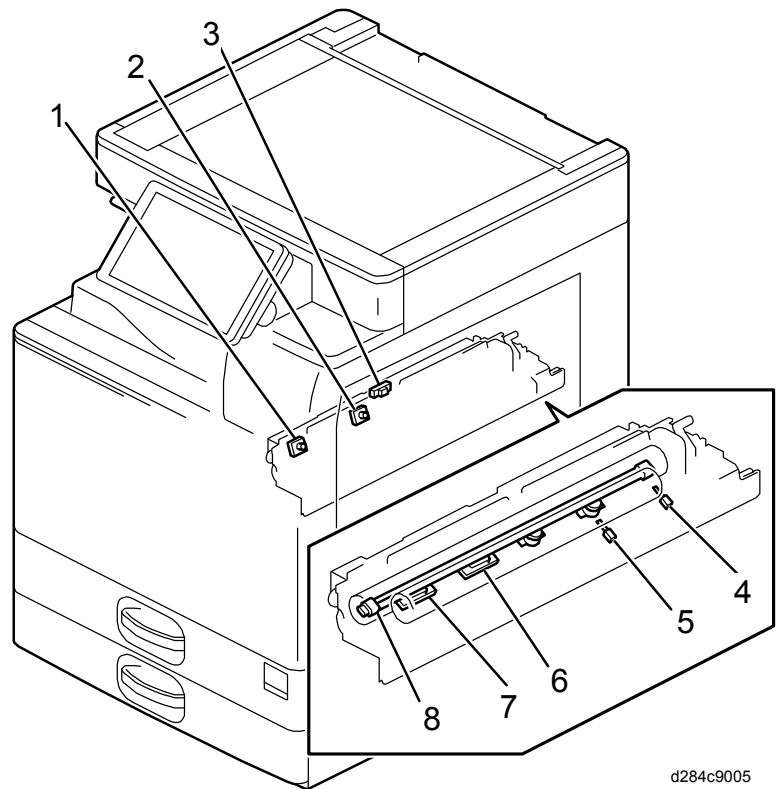
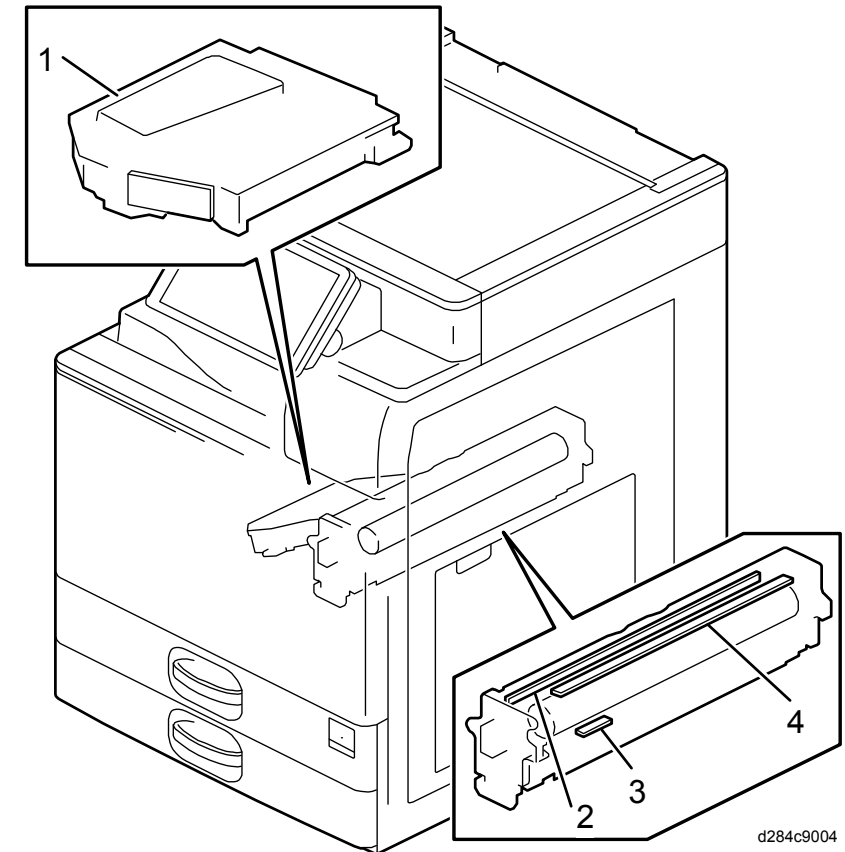
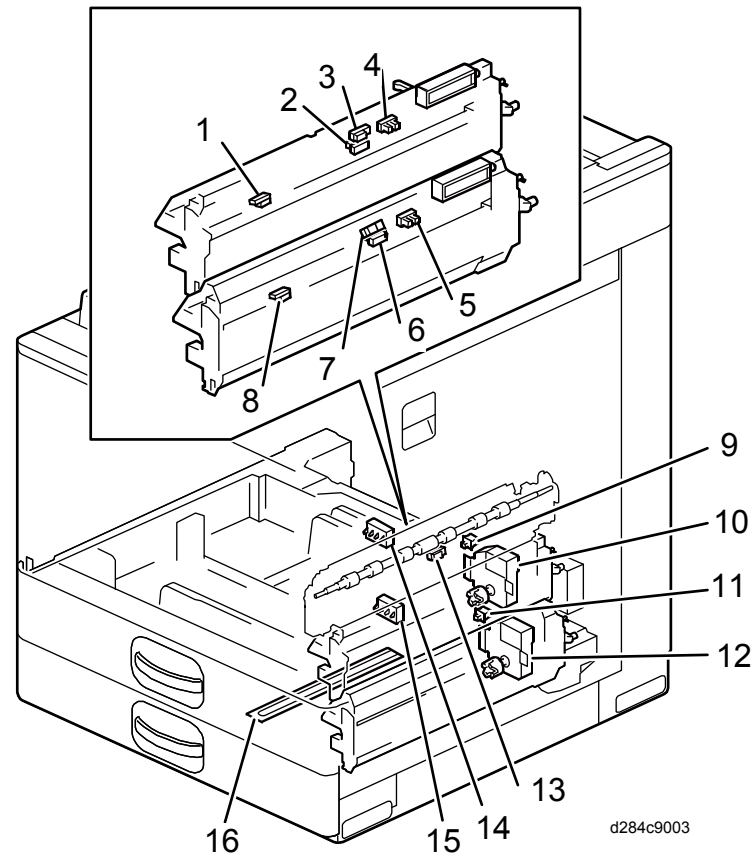
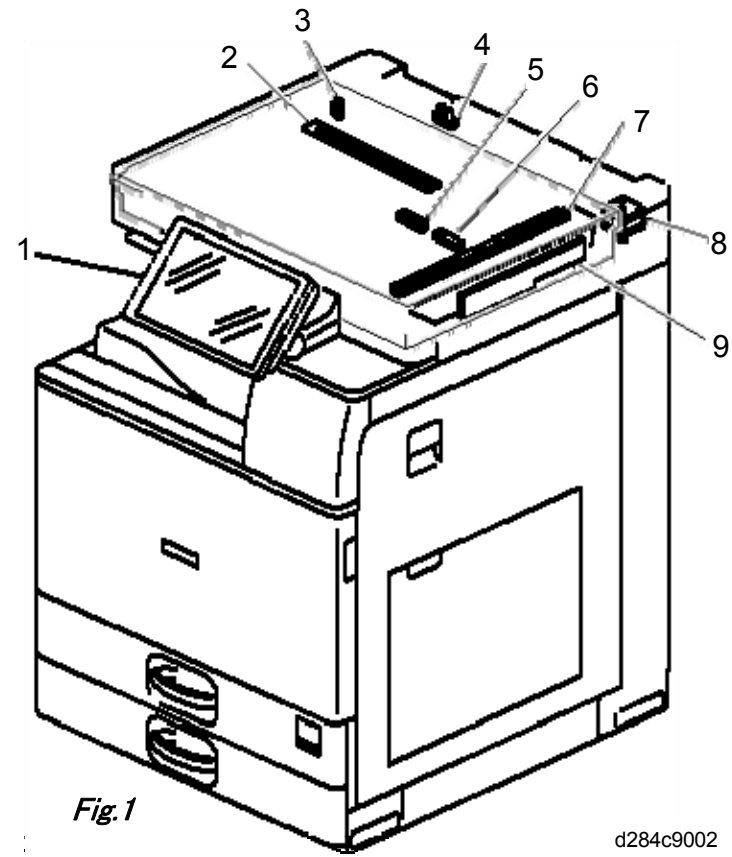
Harness(Unit)    Harness(Main)  
Harness(Option)

Turning point  
 ← →

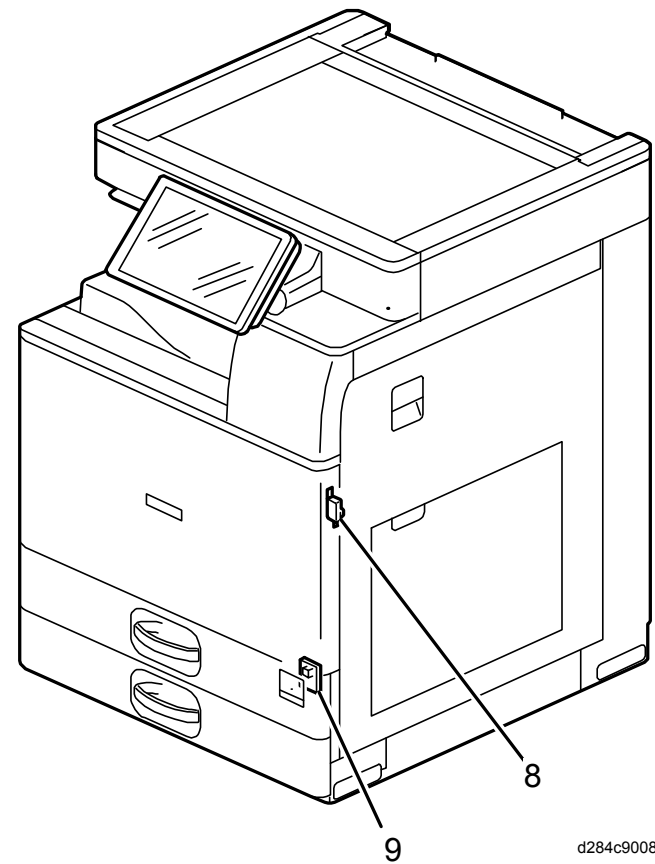
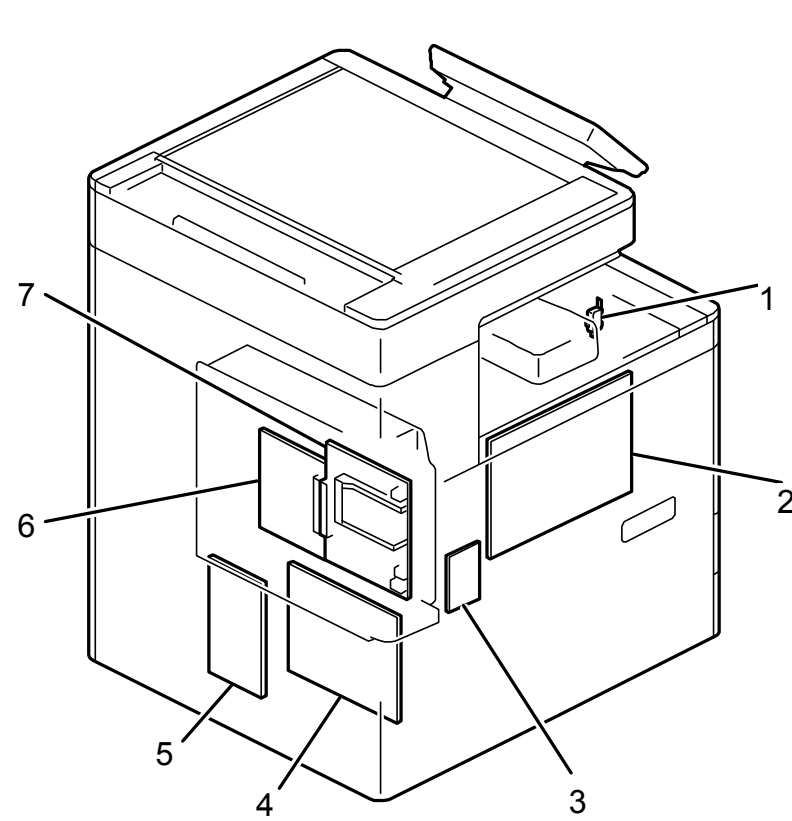
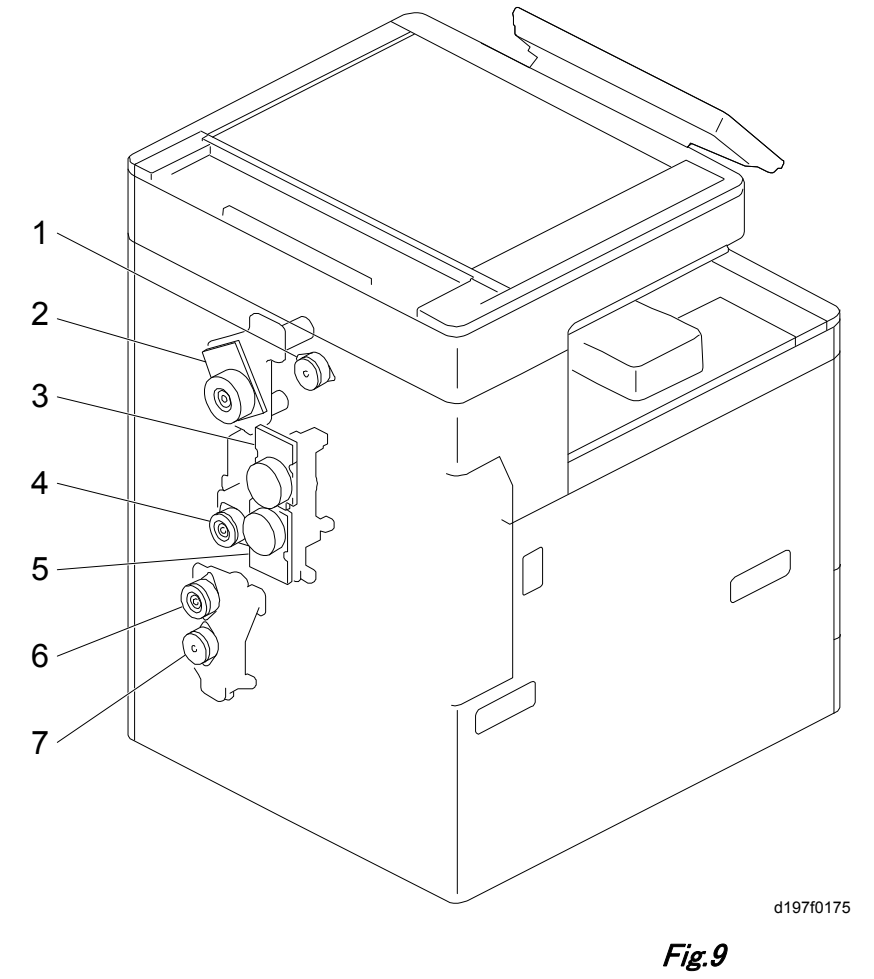
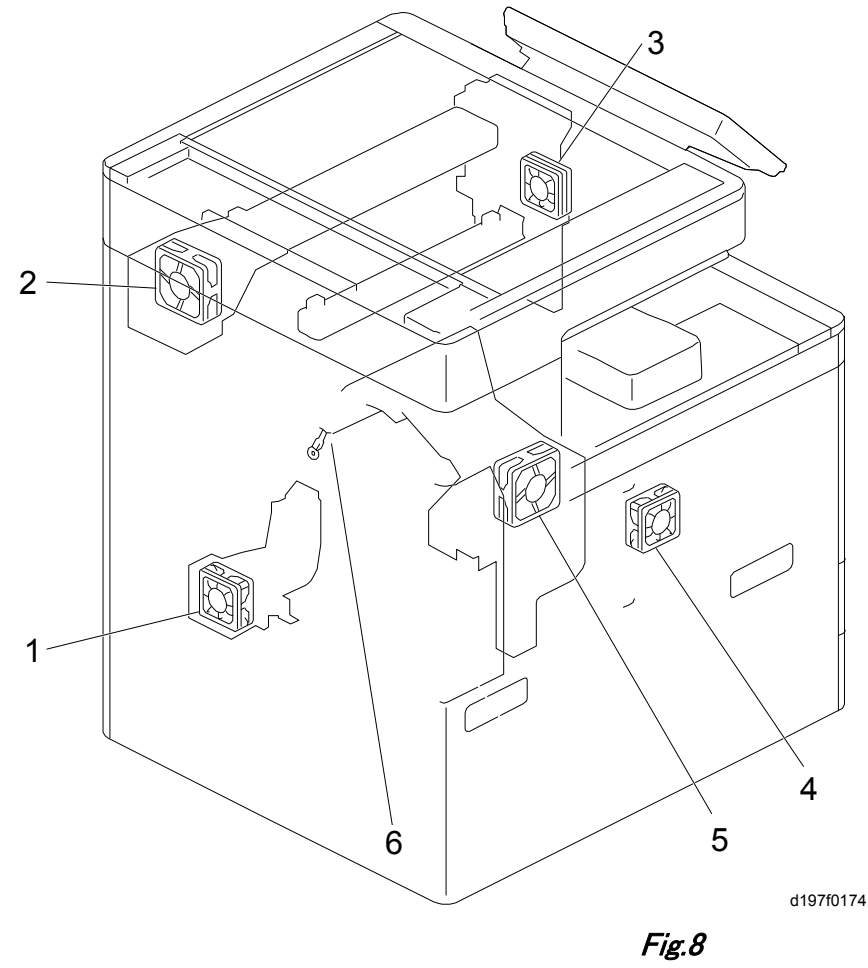
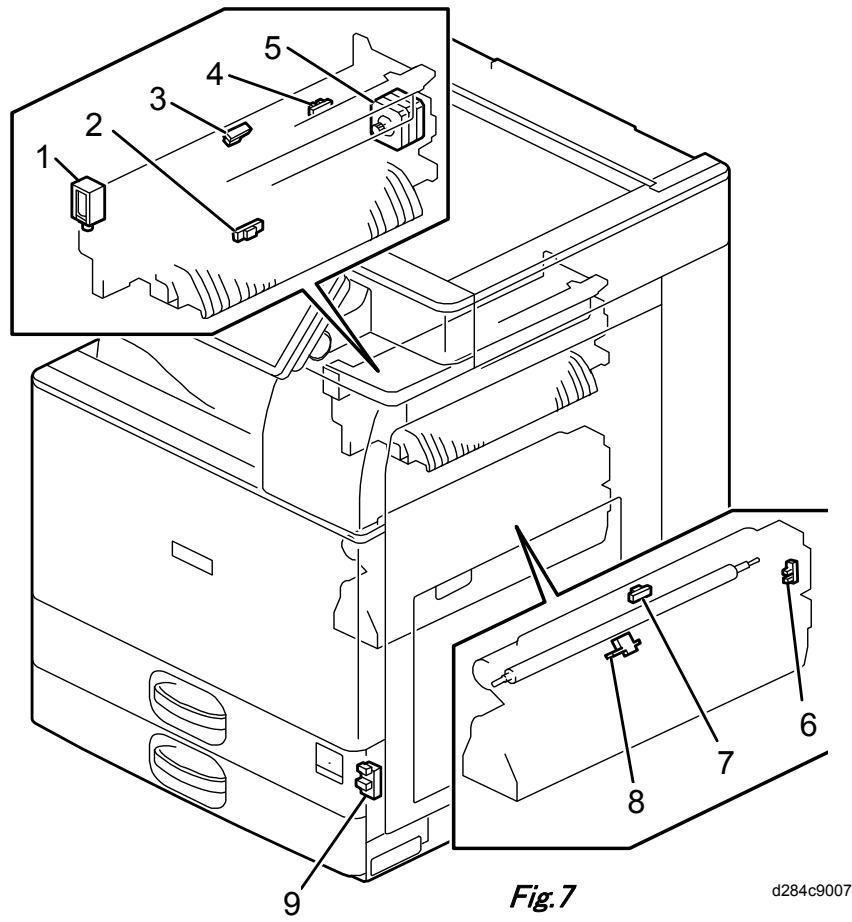
VSS    GND    VCC    GND  
CT    GND    VCC    GND  
XS    GND    VCC    GND

**RICOH MP 2555/3055/3555**  
**RICOH MP 4055/5055/6055**  
**POINT TO POINT DIAGRAM**

# MP2555/3055/3555/4055/5055/6055 ELECTRICAL COMPONENT LAYOUT



# MP2555/3055/3555/4055/5055/6055 ELECTRICAL COMPONENT LAYOUT



# MP2555/3055/3555/4055/5055/6055 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	MP4055/5055/6055: Fusing Motor MP2555/3055/3555: Fusing/Paper Exit Motor	D4
M7	Fig.9-4	Registration Motor	D4
M8	Fig.9-1	Paper Exit Motor (MP4055/5055/6055 Only)	D4
M9	Fig.9-7	Paper Feed Motor	E4
M10	Fig.9-6	Vertical Transport Motor	E4
M11	Fig.7-8	Transfer Roller Contact Motor	A5
M12	Fig.5-1/ Fig.9-3	Drum Motor	B5
M13	Fig.9-5	Development Motor	B5
M14	-	Toner Supply Motor	E5
M15	-	Polygon Mirror Motor	B10
M16	Fig.1-6	Scanner Motor	D10
<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	Fig.6-1	Right Cover Open/Close Switch	C4
SW7	Fig.10-8	Interlock switch (Right Cover)	F4
SW8	Fig.10-1	Interlock switch (Front Cover)	F4
SW9	-	Toner Bottle Detection Switch	B5
SW10	Fig.10-9	Main Power Switch	A10
<b>LEDs</b>			
LED1	-	Transfer Unit Open/Close LED	C4
<b>Fans</b>			
FAN1	-	Fusing Fan 2 (EU MP6055 Only)	E1
FAN2	Fig.8-2	Fusing Fan 1	E4
FAN3	Fig.8-3	Paper Exit Cooling Fan	A5
FAN4	Fig.8-1	Development Bearing Cooling Fan	A5
FAN5	Fig.8-5	Development Exhaust Fan	E8
FAN6	Fig.8-4	PSU Cooling Fan	F8
<b>Boards</b>			
PCB1	Fig.10-4	BCU1	D2
PCB2	Fig.10-4	BCU2	D6
PCB3	Fig.10-5	HVP	A7
PCB4	-	MKB	B7
PCB5	Fig.10-3	DHB	C7
PCB6	Fig.10-2	PSU	D7
PCB7	Fig.10-6	IPU	C9
PCB8	Fig.3-1	LDB	A10
PCB9	Fig.10-7	CTL	C9
PCB10	Fig.1-7	SBU	D10
PCB11	Fig.1-5	LEDB	E10
<b>Others</b>			
OT1	Fig.1-1	Operation Panel Unit	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	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.4-4	Pressure Roller Thermistor(End)	A4
S19	Fig.4-5	Pressure Roller Thermistor(Center)	A4
S20	Fig.4-7	NC Sensor (End)	A4
S21	Fig.4-6	NC Sensor (Center)	B4
S22	Fig.2-13	Registration Sensor	B4
S23	Fig.7-6	Transfer Unit Open/Close Sensor	B4
S24	-	ID Sensor	C4
S25	Fig.7-7	Fusing Entrance Sensor	C4
S26	Fig.7-8	Transfer Roller Contact Sensor	A5
S27	Fig.5-2	Toner Collection Full Sensor	C5
S28	Fig.3-3	TD Sensor	C5
S29	Fig.7-9	Temperature/Humidity Sensor	C5
S30	Fig.8-6	Temperature Sensor	C5
S31	Fig.1-3	Scanner Home Position Sensor	D10
S32	Fig.1-4	DF Position Sensor	D10
S33	-	Original Size Sensor 1	D10
S34	-	Original Size Sensor 2	D10
<b>Heaters</b>			
H1	-	Anti-condensation Heater (PCU)	C8
H2	Fig.1-2	Anti-condensation Heater (Scanner)	C8
H3	Fig.2-16	Paper Feed Heater	C8
H4	-	Bank Heater	C8
H5	Fig.4-8	Fusing Unit (Fusing Heater/Lamp)	D8
<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	Exit Junction Solenoid	D1
SOL2	Fig.6-7	Bypass Pick-up Solenoid	E1
SOL3	-	Recycling Shutter Solenoid	A5

MP/2555/3055/3555/4055/5055/6055 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																				
D2895313 (Mainframe)	CN116	- 1	CN1 - 3	BCU	CN116	1	EEXCLFN_OUT1	--	Paper Exit Cooling Fan	Paper Exit Cooling Fan: ON																			
	"	- 2	" - 1			"	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	CN4 - 3			"	7	GND	G	Transfer Roller Contact Sensor	Transfer Roller Contact Sensor: GND																		
	"	- 8	" - 2			"	8	TTSCASN_SNS	I		Transfer Roller Contact Sensor																		
	"	- 9	" - 1			"	9	+5V_IO	P		Transfer Roller Contact Sensor: +5V																		
	CN117	- A1	-			"	CN117	A1	LWSOCSL_OUT1	--	NC	N.C.																	
	"	- A2	-			"		A2	LWSOCSL_OUT2	--	NC	N.C.																	
	"	- A3	CN7 - 2			"		A3	TTSCASN_OUT1	--	Transfer Roller Contact Motor	Transfer Roller Contact Motor: Terminal 1																	
	"	- A4	" - 1			"		A4	TTSCASN_OUT2	--		Transfer Roller Contact Motor: Terminal 2																	
	"	- A5	CN8 - 10			"		A5	PDR_MT_GA	--	Drum Motor	Drum Motor: SW Gain																	
	"	- A6	" - 9			"		A6	PDR_MT_CLK	--		Drum Motor: Clock																	
	"	- A7	" - 8			"		A7	PDR_MT_BRK_N	--		Drum Motor: Brake																	
	"	- A8	" - 7			"		A8	PDR_MT_CW	--		Drum Motor: CW/CCW																	
	"	- A9	" - 6			"		A9	PDR_MT_STA_N	--		Drum Motor: Start/Stop																	
	"	- A10	" - 5			"		A10	PDR_MT_LOK_N	--		Drum Motor: Lock																	
	"	- A11	" - 4			"		A11	GND	G		Drum Motor: GND																	
	"	- A12	" - 3			"		A12	GND	G		Drum Motor: GND																	
	"	- A13	" - 2			"		A13	+24VS	P		Drum Motor: +24VS																	
	"	- A14	" - 1			"		A14	+24VS	P		Drum Motor: +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: CW/CCW																	
	"	- B5	" - 6			"		B5	ODV_MT_STA_N	--		Development Motor: Start/Stop																	
	"	- B6	" - 5			"		B6	ODV_MT_LOK_N	--		Development Motor: Lock																	
	"	- B7	" - 4			"		B7	GND	G		Development Motor: GND																	
	"	- B8	" - 3			"		B8	GND	G		Development Motor: GND																	
	"	- B9	" - 2			"		B9	+24VS	P		Development Motor: +24VS																	
	"	- B10	" - 1			"		B10	+24VS	P		Development Motor: +24VS																	
	"	- B11	CN10 - 2			"		B11	PHRDQLE_LED-K	--	D2025307(Mainframe)	Quenching Lamp: LED CATHODE	from: BCU(CN117) --D2895313(Mainframe) --D2025307(Mainframe) --end to: Quenching Lamp																
	"	- B12	" - 1			"		B12	+24VS	P	(END: Quenching Lamp)	Quenching Lamp: LED ANODE																	
	"	- B13	CN3 - 3			-		B13	GND	G		Toner Bottle Detection Switch: OUT/2	from: BCU(CN117) --D2895313(Mainframe) --D2023374 (Unit)																
	"	-	" - 2			-						N.C.	-- end to: Electrical Components																
	CN117	- B14	" - 1			-			B14	LWBSTSW_SW1	--	Toner Bottle Detection Switch	Toner Bottle Detection Switch: OUT/1																
	CN118	- 1	CN11 - 6			Orange		1 Bin Tray	CN118	1	GND	G	TD Sensor	GND															
	"	- 2	" - 5			"				2	NTNODSN_VOUT	--		TD Sensor: Clock IN	from: BCU(CN118) --D2895313(Mainframe)														
	"	- 3	" - 4			"				3	+3.3V_ID	P		<TD Sensor>3.3V	--D2023172(PCU)														
	"	- 4	" - 3			"				4	NTNODSN_VTCNT	--		<TD Sensor>TD Sensor: SEL	--end to: TD Sensor														
	"	- 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/Humidity Sensor															
	"	- 8	" - 3			"				8	GND	G		GND															
	"	- 9	" - 2			"				9	TTS_TH_RHV	--		Temperature/Humidity Sensor															
	"	- 10	" - 1			"				10	+3.3V	P		+3.3V															
	"	- 11	CN13 - 2			"				11	GND	G		GND															
	"	- 12	" - 1			"				12	MMI_TIS_SN+	--	Temperature Sensor	Temperature Sensor															
	"	- 13	CN5 - 3			"				13	GND	G		Toner Collection Full Sensor: GND	from: BCU(CN116) --D2895313(Mainframe)														
	"	- 14	" - 2			"				14	LWBNSFSN_SNS	--		Toner Collection Full Sensor	--D2025306(Mainframe)														
	"	- 15	" - 1			"				15	+5V_IO	P		Toner Collection Full Sensor: +5V	-- end to: Electrical Components														
	CN134	- 1	CN14 - 6			Purple				BCU	CN134	1	C1TRVSN_SNS	--	1 Bin Tray	1BIN: Reverse													
	"	- 2	" - 5			"						2	C1TPOSN_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	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	GND									
	"	- 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 Sensor									
	"	- 9	" - 2			"										9	+24V	P		<Bridge Unit> Relay Exit Sensor									
	"	- 10	" - 1			-										10	NC	N		<Paper Exit Tray> Upper Exit Sensor									
	"	- 11	-			-										11	NC	N		<Bridge Unit> Relay Transport Motor: Reset									
	"	- 12	CN18 - 9			Purple										12	+24V	P		<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	--		NC									
	"	- 20	" - 1			"										20	CBEOCSN_SNS	--		NC									
	"	- 21	-			-										21	NC	N		NC									
	"	- 22	-			-										22	NC	N		NC									
	CN540	- 1	CN19 - 2			Orange										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							
	"	-	CN20 - 4			-												-	NC	N		NC							
	CN145	- 1	" - 3			Orange												BCU	CN145	1	+3.3V	P	Fusing Roller Temperature Sensor (End)	+3.3V					
	"	- 2	" - 2			"														2	GND	G		GND					
	"	- 3	" - 1			"														3	FFR_TSEG_SN-O	--		Fusing Roller Temperature Sensor (End)					
	"	- 4	CN21 - 4			"														4	-	--		-					
	CN145	- 4	" - 3			Orange														BCU	CN145	4	+3.3V	P	Fusing Roller Temperature Sensor (Center)	+3.3V			
	"	- 5	" - 2			"																5	GND	G		GND			
	"	- 6	" - 1			"																6	FFR_TSCT_SN-O	--		Fusing Roller Temperature Sensor (Center)			
	CN141	- 1	CN22 - 3			Orange																BCU	CN141	1	+24V_LPS	P	PCL (Pre Cleaning Light)	PCL (Pre Cleaning Light): +24V	
	"	-	" - 2			-																		-	NC	N		NC	
	CN141	- 2	" - 1			Orange																		2	MPT_LED_LED1	--		PCL (Pre Cleaning Light): Cathode	



MP/2555/3055/3555/4055/5055/6055 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					
D2895302 (Mainframe)	CN127	- 1	CN1 - 4	Orange		CN127	1	NTBDRMT_A	--	Toner Supply Motor	Phase A			
	"	- 2	" - 3	"		2	NTBDRMT_XA	--	Phase XA					
	"	- 3	" - 2	"		3	NTBDRMT_B	--	Phase B					
	"	- 4	" - 1	"		4	NTBDRMT_XB	--	Phase XB					
D2895303 (Mainframe)	CN107	- 1	CN528 - 20	Orange		CN107	1	+24VS	P	IPU	24VS			
	"	- 2	" - 19	"		2	GND	G	GND					
	"	- 3	" - 18	"		3	GND	G	GND					
	"	- 4	" - 17	"		4	+24V	P	24V					
	"	- 5	" - 16	"		5	GND	G	GND					
	"	- 6	" - 15	"		6	+5VE_LPS	P	5VE_LPS					
	"	- 7	" - 14	"		7	+5V	P	5V					
	"	- 8	" - 13	"		8	+5V	P	5V					
	"	- 9	" - 12	"		9	GND	G	GND					
	"	- 10	" - 11	"		10	TIMER_UP_N0_I	--	Time: Eg. Off 0					
	"	- 11	" - 10	"		11	TIMER_UP_N1_I	--	Time: Eg. Off 1					
	"	- 12	" - 9	"		12	TIMER_UP_N2_I	--	Time: Eg. Off 2					
	"	- 13	" - 8	"		13	FUKKI_I	--	E.Save Recovery Signal					
	"	- 14	" - 7	"		14	ENGENABLE_N_I	--	L: Normal Launch H: Rapi Open Wait					
	"	- 15	" - 6	"		15	PONENG_N_I	--	E. Save Recovery Signal					
	"	- 16	" - 5	"		16	GAVD_SYCS_N_O	--	GMAC Sync Serial Chip Selection					
	"	- 17	" - 4	"		17	GMAC_SYCS_N_O	--	GMAC Sync Serial Chip Selection					
	"	- 18	" - 3	"		18	SYCLK_O	--	GAVD Sync Serial Clock					
	"	- 19	" - 2	"		19	SYDO_O	--	GAVD Sync Serial TX					
	D2895304 (Mainframe)	CN128	- 1	CN1 - 12		Orange	BCU	CN128	1		SYDI_I	--	HVP CN800	GAVD Sync Serial RX
"		- 2	" - 11	"	2	PWM_D		--	HVP/Separation DC(-): PWM					
"		- 3	" - 10	"	3	ERR_D		--	HVP/Separation DC(-): Fault Detection					
"		- 4	" - 9	"	4	FB_T+		--	HVP/Transfer DC(+): Voltage FB					
"		- 5	" - 8	"	5	PWM_T+		--	HVP/Transfer DC(+): PWM					
"		- 6	" - 7	"	6	PWM_B		--	HVP/Development DC(-): PWM					
"		- 7	" - 6	"	7	PWM_C		--	HVP/Charge DC(-): PWM					
"		- 8	" - 5	"	8	ERR_T		--	HVP/Transfer DC(+)&(-): Fault Detection					
"		- 9	" - 4	"	9	ERR_B		--	HVP/Development DC(-): Fault Detection					
"		- 10	" - 3	"	10	ERR_C		--	HVP/Charge DC(-): Fault Detection					
"		- 11	" - 2	"	11	GND		G	GND					
D2895305 (Mainframe)		CN135	- 1	CN1 - 16	Brown	BCU		CN135	1	CBANK_RXD	--	Paper Bank		BANK: UART RXD
	"	- 2	" - 14	"	2		CBANK_TXD	--	BANK: UART TXD					
	"	- 3	" - 12	"	3		GND	G	BANK: GND					
	"	- 4	" - 10	"	4		GND	G	BANK: GND					
	"	- 5	" - 8	"	5		+5V	P	BANK: +5V					
	"	- 6	" - 6	"	6		+5V	P	BANK: +5V					
	"	- 7	" - 4	"	7		GND	G	BANK: GND					
	"	- 8	" - 3	"	8		GND	G	BANK: GND					
	"	- 9	" - 5	"	9		GND	G	BANK: GND					
	"	- 10	" - 7	"	10		GND	G	BANK: GND					
	"	- 11	" - 9	"	11		+24V	P	BANK: +24V					
	"	- 12	" - 11	"	12		+24V	P	BANK: +24V					
	"	- 13	" - 13	"	13		+24V	P	BANK: +24V					
	"	- 14	" - 15	"	14		+24V	P	BANK: +24V					
	"	-	" - 1	-	-		NC	N	BANK: +24V					
	"	-	" - 2	-	-		NC	N	N.C.					
	"	-	" - 17	-	-		NC	N	N.C.					
	"	-	" - 18	-	-		NC	N	N.C.					
	"	-	CN3 - 8	-	-		-	-	-					
	"	CN137	- 1	" - 7	Purple		BCU	CN137	1	EFIN_RXD	--		Finisher	Finisher: UARTRX
	"	-	" - 6	-	-			-	-	-				
	"	CN137	- 2	" - 5	Purple			2	EFIN_TXD	--	Finisher: UARTRX			
	"	-	" - 4	-	-			-	-	-				
	"	-	" - 3	-	-			-	-	-				
	"	CN137	- 3	" - 2	Purple			3	GND	G	GND			
	"	-	" - 1	-	-			4	GND	G	GND			
	"	-	CN4 - 9	"	5			GND	G	GND				
	"	-	" - 8	"	6			GND	G	GND				
	"	-	" - 7	"	7			GND	G	GND				
	"	-	" - 6	"	8			GND	G	GND				
"	-	" - 5	"	9	+24V	P		+24V						
"	-	" - 4	"	10	+24V	P	+24V							
"	-	" - 3	"	11	+24V	P	+24V							
"	-	" - 2	"	12	+24V	P	+24V							
D2025306 (Mainframe)	CN5	- 1	CN1 - 3	Purple	D2895313	CN5	1	GND	G	Toner Collection Full Sensor	GND			
	"	- 2	" - 2	"		2	LWBNFSN_SNS	--	Toner Collection Full Sensor					
	"	- 3	" - 1	"		3	+5V	P	+5V					
D2025307 (Mainframe)	CN10	- 1	CN1 - 2	Purple	D2895313	CN10	1	PHRDQLE_LED-K	--	Quenching Lamp	Quenching Lamp: OUT			
	"	- 2	" - 1	"		2	+24VS	P	+24VS					

MP/2555/3055/3555/4055/5055/6055 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					
D2895320 (MP4055/5055/6055) /D2865320 (MP2555/3055/3555)  (Mainframe)	CN114	- 1	CN1 - 10	Orange	BCU	CN114	1	FFU_MT_GA	→	Fusing/Paper Exit Motor	<MP4055/5055/6055>Fusing Motor: SW Gain <MP2555/3055/3555>Paper Exit Motor: SW Gain	MP4055/5055/6055 models only		
	"	- 2	" - 9	"		2	FFU_MT_CLK	→			<MP4055/5055/6055>Fusing Motor: Clock <MP2555/3055/3555>Paper Exit Motor: Clock			
	"	- 3	" - 8	"		3	FFU_MT_BRK_N	→			<MP4055/5055/6055>Fusing Motor: Brake <MP2555/3055/3555>Paper Exit Motor: Brake			
	"	- 4	" - 7	"		4	FFU_MT_CW	→			<MP4055/5055/6055>Fusing Motor: Rotating Direction <MP2555/3055/3555>Paper Exit Motor: Rotating Direction			
	"	- 5	" - 6	"		5	FFU_MT_STA_N	→			<MP4055/5055/6055>Fusing Motor: Start <MP2555/3055/3555>Paper Exit Motor: Start			
	"	- 6	" - 5	"		6	FFU_MT_LOK_N	→			<MP4055/5055/6055>Fusing Motor: Lock <MP2555/3055/3555>Paper Exit Motor: Lock			
	"	- 7	" - 4	"		7	GND	G			GND			
	"	- 8	" - 3	"		8	GND	G			GND			
	"	- 9	" - 2	"		9	+24VS	P			+24VS			
	"	- 10	" - 1	"		10	+24VS	P			+24VS			
	CN113	- A1	CN2 - 8	"		A1	CRG_MT_ENC-A	→		Registration Motor	Registration Motor: Encoder A			
	"	- 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	<MP4055/5055/6055>Paper Exit Motor: Encoder A			
	"	- A10	" - 7	"		A10	EEX_MT_ENC-B	→			<MP4055/5055/6055>Paper Exit Motor: Encoder B			
	"	- A11	" - 6	"		A11	+5V	P			+5V			
	"	- A12	" - 5	"		A12	EEX_MT_CW	→			<MP4055/5055/6055>Paper Exit Motor: Rotating Direction			
	"	- A13	" - 4	"		A13	EEX_MT_PWM	→			<MP4055/5055/6055>Paper Exit Motor: Clock			
	"	- A14	" - 3	"		A14	EEX_MT_BRK_N	→			<MP4055/5055/6055>Paper Exit Motor: Brake			
	"	- A15	" - 2	"		A15	GND	G			GND			
	"	- A16	" - 1	"		A16	+24VS	P			+24VS			
	"	- A17	-	-		A17	NC	N		NC	NC			
	"	- B1	-	-		B1	NC	N		NC	NC			
	"	- B2	CN3 - 8	Orange		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	CFDPFMT_ENC-A	→		Vertical Transport Motor	Vertical Transport Motor: Encoder A			
	"	- B11	" - 7	"		B11	CFDPFMT_ENC-B	→			Vertical Transport Motor: Encoder B			
	"	- B12	" - 6	"		B12	+5V	P			+5V			
	"	- B13	" - 5	"		B13	CFDPFMT_CW	→			Vertical Transport Motor: Rotating Direction			
	"	- B14	" - 4	"		B14	CFDPFMT_PWM	→			Vertical Transport Motor: Clock			
	"	- B15	" - 3	"		B15	CFDPFMT_BRK_N	→			Vertical Transport Motor: Brake			
	"	- B16	" - 2	"		B16	GND	G			GND			
	"	- B17	" - 1	"		B17	+24VS	P			+24VS			
	CN129	- 1	CN5 - 4	"		1	+24V	P		Fusing Fan 1	Fusing Fan 1: +24V			
"	- 2	" - 3	"	2	FFUSFFN_LOK	→			Fusing Fan 1: Lock Sensor Signal					
"	- 3	" - 2	"	3	GND	G			Fusing Fan 1: GND					
"	- 4	" - 1	"	4	FFUSFFN_PWM1	→			Fusing Fan 1: PWM信号					
"	- 5	-	-	5	N.C.	N			N.C.					
D2895321 (for 200V & MP4055/5055/6055) /D2865321 (for 200V & MP2555/3055/3555)  (Mainframe)	CN110	- 1	CN1 - 14	Purple	CN110	CN110	1	+24VS	P	D1492708 (1st Paper Feed Unit)	+24VS	from: BCU (CN110) ↓ D2895321/D2865321 (Mainframe) ↓ D2022708 (1st Paper Feed Unit) ↓ end to: Electrical Components		
	"	- 2	" - 13	"		2	CF1PUSL_OUT2	→			1st Pick-up Solenoid *Japan Only: PWM			
	"	- 3	" - 12	"		3	GND	G			GND			
	"	- 4	" - 11	"		4	CF1SN_SNS	→		end to:	1st Paper Feed Sensor			
	"	- 5	" - 10	"		5	+5V	P		*1st Paper Feed Sensor	+5V			
	"	- 6	" - 9	"		6	GND	G		*1st Paper End Sensor	GND			
	"	- 7	" - 8	"		7	CH1SN_SNS	→		*1st Paper Feed Tray Limit Sensor	1st Vertical Transport Sensor			
	"	- 8	" - 7	"		8	+5V	P			+5V			
	"	- 9	" - 6	"		9	GND	G			GND			
	"	- 10	" - 5	"		10	CT1PESN_SNS	→			1st Paper End Sensor			
	"	- 11	" - 4	"		11	+5V	P			+5V			
	"	- 12	" - 3	"		12	GND	G			GND			
	"	- 13	" - 2	"		13	CT1ULSN_SNS	→			1st Paper Feed Tray Limit Sensor			
	"	- 14	" - 1	"		14	+5V	P			+5V			
	"	- 15	-	-		15	NC	N		NC	NC			
	"	- 16	-	-		16	NC	N		NC	NC			
	"	- 17	CN2 - 5	Purple		17	CT1SZSW_SW4	→			1st Paper Feed Tray Size Switch: 4			
	"	- 18	" - 4	"		18	GND	G			GND			
	"	- 19	" - 3	"		19	CT1SZSW_SW3	→		1st Paper Feed Tray Size Switch	1st Paper Feed Tray Size Switch: 3			
	"	- 20	" - 2	"		20	CT1SZSW_SW2	→			1st Paper Feed Tray Size Switch: 2			
	"	- 21	" - 1	"		21	CT1SZSW_SW1	→			1st Paper Feed Tray Size Switch: 1			
	"	- 22	CN3 - 5	"		22	CT1UPMT_SW2	→		1st Paper Feed Tray Lift Motor2 (Paper Remaining Sensor)	1st Paper Feed Tray Lift Motor (Paper Remaining Sensor): 2			
	"	- 23	" - 4	"		23	GND	G		1st Paper Feed Tray Lift Motor (Paper Remaining Sensor)	GND			
	"	- 24	" - 3	"		24	CT1UPMT_SW1	→		1st Paper Feed Tray Lift Motor1 (Paper Remaining Sensor)	1st Paper Feed Tray Lift Motor (Paper Remaining Sensor): 1			
	"	- 25	" - 2	"		25	CT1UPMT_OUT2	→		1st Paper Feed Tray Lift Motor	1st Paper Feed Tray Lift Motor: OUT/2			
	"	- 26	" - 1	"		26	CT1UPMT_OUT1	→			1st Paper Feed Tray Lift Motor: OUT/1			
	"	- 27	CN4 - 2	"		27	GND	G		1st Paper Feed Tray Set Switch	GND			
	"	- 28	" - 1	"		28	CT1STSW_SW1	→			1st Paper Feed Tray Set Switch			
	CN111	- 1	CN5 - 14	Purple		CN111	CN111	1	+24VS	P	D1492708 (2nd Paper Feed Unit)		+24VS	from: BCU (CN111) ↓ D2895321/D2865321 (Mainframe) ↓ D2022708 (2nd Paper Feed Unit) ↓ end to: Electrical Components
	"	- 2	" - 13	"			2	CF2PUSL_OUT2	→				2nd Pick-up Solenoid *Japan Only: PWM	
	"	- 3	" - 12	"			3	GND	G				GND	
	"	- 4	" - 11	"			4	CF2SN_SNS	→		end to:		2nd Paper Feed Sensor	
	"	- 5	" - 10	"			5	+5V	P		*2nd Paper Feed Sensor		+5V	
	"	- 6	" - 9	"			6	GND	G		*2nd Paper End Sensor		GND	
	"	- 7	" - 8	"			7	CH2SN_SNS	→		*2nd Paper Feed Tray Limit Sensor		2nd Vertical Transport Sensor	
	"	- 8	" - 7	"			8	+5V	P				+5V	
	"	- 9	" - 6	"			9	GND	G				GND	
	"	- 10	" - 5	"			10	CT2PESN_SNS	→				2nd Paper End Sensor	
	"	- 11	" - 4	"			11	+5V	P				+5V	
	"	- 12	" - 3	"			12	GND	G				GND	
	"	- 13	" - 2	"			13	CT2ULSN_SNS	→				2nd Paper Feed Tray Limit Sensor	
	"	- 14	" - 1	"			14	+5V	P				+5V	
	"	- 15	-	-			15	NC	N		NC		NC	
	"	- 16	-	-			16	NC	N		NC		NC	
	"	- 17	-	-			17	NC	N		NC		NC	
"	- 18	-	-	18	NC		N		NC	NC				
"	- 19	CN6 - 5	Purple	19	CT2SZSW_SW4		→			2nd Paper Feed Tray Size Switch: 4				
"	- 20	" - 4	"	20	GND		G			GND				
"	- 21	" - 3	"	21	CT2SZSW_SW3		→		2nd Paper Feed Tray Size Switch	2nd Paper Feed Tray Size Switch: 3				
"	- 22	" - 2	"	22	CT2SZSW_SW2		→			2nd Paper Feed Tray Size Switch: 2				
"	- 23	" - 1	"	23	CT2SZSW_SW1		→			2nd Paper Feed Tray Size Switch: 1				
"	- 24	CN7 - 5	"	24	CT2UPMT_SW2		→		2nd Paper Feed Tray Lift Motor 2 (Paper Remaining Sensor)	2nd Paper Feed Tray Lift Motor (Paper Remaining Sensor): 2				
"	- 25	" - 4	"	25	GND		G		2nd Paper Feed Tray Lift Motor (Paper Remaining Sensor)	GND				
"	- 26	" - 3	"	26	CT2UPMT_SW1		→		2nd Paper Feed Tray Lift Motor 1 (Paper Remaining Sensor)	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: OUT/1				
"	- 29	CN8 - 2	"	29	GND		G		2nd Paper Feed Tray Set Switch	GND				
"	- 30	" - 1	"	30	CT2STSW_SW1		→			2nd Paper Feed Tray Set Switch				

MP/2555/3055/3555/4055/5055/6055 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					
D2895321 (for 200V & MP4055/5055/6055) /D2865321 (for 200V & MP2555/3055/3555)  (Mainframe)	CN124	- 1	CN9	- 18	BCU	CN124	1	+24VS	P	D2024499 (Paper Exit Unit)  end to: *Paper Exit Switching Solenoid *Reverse Sensor *Paper Exit Sensor *Paper Exit Full Sensor *Fusing Exit Sensor *Reverse Motor	+24VS	from: BCU (CN124, CN125)   D2895321/D2865321 (Mainframe)   D2024499 (Paper Exit)   end to: Electrical Components		
	"	- 2	"	- 17			2	EEXDVSL_OUT2	--		GND		Paper Exit Switching Solenoid: PWM	
	"	- 3	"	- 16			3	GND	--		GND		GND	
	"	- 4	"	- 15			4	RRV_SN_SNS	--		GND		Reverse Sensor	
	"	- 5	"	- 14			5	+5V	P		+5V		+5V Sensor	
	"	- 6	"	- 13			6	GND	G		GND		GND	
	"	- 7	"	- 12			7	EEX_SN_SNS	--		GND		Paper Exit Sensor	
	"	- 8	"	- 11			8	+5V	P		+5V		+5V	
	"	- 9	"	- 10			9	GND	G		GND		GND	
	"	- 10	"	- 9			10	EEXFLSN_SNS	--		GND		Paper Exit Full Sensor	
	"	- 11	"	- 8			11	+5V	P		+5V		+5V	
	"	- 12	"	- 7			12	GND	G		GND		GND	
	"	- 13	"	- 6			13	FFUOUSN_SNS	--		GND		Fusing Exit Sensor	
	"	- 14	"	- 5			14	+5V	P		+5V		+5V	
	"	CN125	- 1	"			- 4	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	A1	FFR_TSFR_SN-C		--		Fusing Roller Temperature Sensor (End)	Fusing Roller Temperature Sensor (End): Compensation
	"	"	- A2	"			- 7	A2	FFR_TSFR_SN-D		--		GND	Fusing Roller Temperature Sensor (End): Detection
	"	"	- A3	"			- 6	A3	GND		G		GND	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		--		GND	Fusing Roller Temperature Sensor (Center): Detection
	"	"	- A6	"			- 3	A6	GND		G		GND	GND
	"	"	- A7	"			- 2	A7	FFUNWPU_IN		--		Fusing Unit New Detection Fuse	Fusing Unit New Detection Fuse: Trigger
	"	"	- A8	"			- 1	A8	GND		G		GND	GND For FUSE
	"	"	- A9	CN11			- 9	A9	FFR_TSFR_SN+		--		Pressure Roller Temperature Sensor (End)	Pressure Roller Temperature Sensor (End)
	"	"	- A10	"			- 8	A10	GND		G		GND	GND
	"	"	- A11	"			- 7	A11	FFR_TSBC_SN+		--		Pressure Roller Temperature Sensor (Center)	Pressure Roller Temperature Sensor (Center)
	"	"	- A12	"			- 6	A12	GND		G		GND	GND
	"	"	- A13	"			- 5	A13	FFU_SS_DOM		--		Set Detection Mechanism	Set Detection Mechanism: Japan
	"	"	- A14	"			- 4	A14	FFU_SS_NA		--		Set Detection Mechanism	Set Detection Mechanism: NA/TWN
	"	"	- A15	"			- 3	A15	FFU_SS_EU		--		Set Detection Mechanism	Set Detection Mechanism: EU
	"	"	- A16	"			- 2	A16	GND		G		<MP2555/3055/3555>GND for Set Detection	D2895321(200V & MP4055/5055/6055): NC
	"	"	- A17	"			- 1	A17	GND		G		<MP4055/5055/6055>GND for Set Detection	D2865321(200V & MP2555/3055/3555): NC
	"	"	- A18	"			-	A18	NC		N		NC	NC
	"	"	- A19	"			-	A19	NC		N		NC	NC
	"	CN115	- B1	CN12			- 3	B1	GND		G		D2022556 (Registration)	GND
	"	"	- B2	"			- 2	B2	CRG_SN_SNS		--		Registration Sensor	Registration Sensor
	"	"	- B3	"			- 1	B3	+5V		P		Power: +5V	Power: +5V
	"	"	- B4	CN13			- 3	B4	GND		G		Transfer Unit Open/Close Sensor	GND
	"	"	- B5	"			- 2	B5	TTSOCSN_SNS		--		Transfer Unit Open/Close Sensor	Transfer Unit Open/Close Sensor
	"	"	- B6	"			- 1	B6	+5V		P		+5V	+5V
	"	"	- B7	CN14			- 2	B7	GND		G		Right Cover Open/Close Switch	GND
	"	"	- B8	"			- 1	B8	MRDOCSW_SW1		--		Right Cover Open/Close Switch	Right Cover Open/Close Switch
	"	"	- B9	CN17			- 2	B9						
	"	"	- B10	"			- 1	B10						
	"	"	- B11	CN16			- 9	B11	PDRPNSN_V-C		--		D2026237 (Transfer Unit)	ID Sensor
	"	"	- B12	"			- 8	B12	PDRPNSN_L-C		--		GND	ID Sensor: PWM
"	"	- B13	"	- 7	B13	GND	G	GND	GND					
"	"	- B14	"	- 6	B14	+3.3V	P	+3.3V	+3.3V					
"	"	- B15	"	- 5	B15	TTSOCLD_LED-K	--	Transfer Unit Open/Close LED	Transfer Unit Open/Close LED: OUT					
"	"	- B16	"	- 4	B16	+5V	P	+5V	+5V					
"	"	- B17	"	- 3	B17	GND	G	*Fusing Entrance Sensor	GND					
"	"	- B18	"	- 2	B18	FFUINSN_SNS	--	Fusing Entrance Sensor	Fusing Entrance Sensor					
"	"	- B19	"	- 1	B19	+5V	P	+5V	+5V					
D2895322 (for 200V & MP4055/5055/6055) /D2865322 (for 200V & MP2555/3055/3555)  (Mainframe)	CN911	- 1	CN542	- 5	PSU	CN911	1	+5VX	P	IPU CN542-5	+5VX	from: BCU (CN115)   D2895321/D2865321 (Mainframe)   D2026237 (Transfer Unit)   end to: Electrical Components		
	"	- 2	"	- 4			2	+5VX	P		IPU CN542-4		+5VX	
	"	- 3	"	- 3			3	+5V	P		IPU CN542-3		+5V	
	"	- 4	"	- 2			4	GND	G		IPU CN542-2		GND	
	"	- 5	"	- 1			5	GND	G		IPU CN542-1		GND	
	"	CN912	- 1	CN544			- 1	1	GND		G		IPU CN544-1	IPU: GND
	"	"	- 2	CN119			- 1	2	GND		G		BCU CN119-1	BCU: GND
	"	"	- 3	"			- 2	3	GND		G		BCU CN119-2	BCU: GND
	"	"	- 4	CN544			- 2	4	+24V		P		IPU CN544-2	IPU: 24V
	"	"	- 5	CN119			- 3	5	+24V		P		BCU CN119-3	BCU: 24V
	"	"	- 6	"			- 4	6	+24V		P		BCU CN119-4	BCU: 24V
	"	CN913	- 1	CN2			- 2	1	JIGU-24V		P		Relay Tool	Relay Tool: +
	"	"	- 2	"			- 1	2	JIGU-TRG		--		Relay Tool	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 Signal 1
	"	"	- 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		NC	N.C
	"	"	- 11	CN120			- 3	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	1	MHDEFFN_OUT1		--		Development Exhaust Fan	Development Exhaust Fan: ON
	"	"	- 2	"			- 2	2	MHDEFFN_LOK		--		GND	Development Exhaust Fan: Lock
	"	"	- 1	"			- 3	3	GND		G		GND	GND
	"	CN4	- 3	"			- 4	4	QPSCLFN_OUT1		--		PSU Cooling Fan	PSU Cooling Fan: ON
	"	"	- 2	"			- 5	5	QPSCLFN_LOK		--		GND	PSU Cooling Fan: Lock
	"	"	- 1	"			- 6	6	GND		G		GND	GND
	"	CN3	- 3	"			- 7	7	QCTCLFN_OUT1		--		Development Bearing Cooling Fan (Front)/Odor Fan	Development Bearing Cooling Fan (Front)/Odor Fan: ON
	"	"	- 2	"			- 8	8	QCTCLFN_LOK		--		GND	Development Bearing Cooling Fan (Front)/Odor Fan: Lock
	"	"	- 1	"			- 9	9	GND		G		GND	GND



MP/2555/3055/3555/4055/5055/6055 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		
D2895340 (Mainframe)	CN122 - 1	CN1 - 2	Orange	BCU	CN122	1	+24VS	P	Interlock Switch	Interlock Switch	BCU - Interlock Switch Interlock Switch - Interlock Switch BCU - Interlock Switch
	CN1 - 1	CN2 - 2	"			2	+24VL	P	Interlock Switch	+24V	
	CN2 - 1	CN122 - 2	"			3					
D2025351 (Mainframe)	T3	T7	Red	HVP	T	1	HVP: T	→	Transfer Roller	Transfer	DC High Voltage
	T1	T5	"			1	HVP: C	→	Charge Roller	Charge	
	T2	T6	"			1	HVP: B	→	Development Roller	Development	
	T4	T8	"			1	HVP: D	→	Separation	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	
D2895374 (Mainframe)	CN1 - 1	CN2 - 50	FFC	BCU	CN106	1	FFC_IPU	→	IPU	FFC Connection Detection	
	" - 2	" - 49	"			2	CIS_DET_N	→		ADF Set Detection	
	" - 3	" - 48	"			3	IPU_WAKE	→		IPU Launch Detection	
	" - 4	" - 47	"			4	ADF_RXD_I	→		ADF RXD	
	" - 5	" - 46	"			5	ADF_TXD_O	→		ADF TXD	
	" - 6	" - 45	"			6	M2P_RST_N	→		Memory to plotter: Reset	
	" - 7	" - 44	"			7	IPU_INT_N	→		IPU Interrupt	
	" - 8	" - 43	"			8	IPU_RD_N	→		IPU Read	
	" - 9	" - 42	"			9	IPU_WR_N	→		IPU Write	
	" - 10	" - 41	"			10	IPU_D(0)	B		IPU Data Bus 0	
	" - 11	" - 40	"			11	IPU_D(1)	B		IPU Data Bus 1	
	" - 12	" - 39	"			12	IPU_D(2)	B		IPU Data Bus 2	
	" - 13	" - 38	"			13	IPU_D(3)	B		IPU Data Bus 3	
	" - 14	" - 37	"			14	IPU_D(4)	B		IPU Data Bus 4	
	" - 15	" - 36	"			15	IPU_D(5)	B		IPU Data Bus 5	
	" - 16	" - 35	"			16	IPU_D(6)	B		IPU Data Bus 6	
	" - 17	" - 34	"			17	IPU_D(7)	B		IPU Data Bus 7	
	" - 18	" - 33	"			18	GND	G		GND	
	" - 19	" - 32	"			19	IPU_D(8)	B		IPU Data Bus 8	
	" - 20	" - 31	"			20	IPU_D(9)	B		IPU Data Bus 9	
	" - 21	" - 30	"			21	IPU_D(10)	B		IPU Data Bus 10	
	" - 22	" - 29	"			22	IPU_D(11)	B		IPU Data Bus 11	
	" - 23	" - 28	"			23	IPU_D(12)	B		IPU Data Bus 12	
	" - 24	" - 27	"			24	IPU_D(13)	B		IPU Data Bus 13	
	" - 25	" - 26	"			25	IPU_D(14)	B		IPU Data Bus 14	
	" - 26	" - 25	"			26	IPU_D(15)	B		IPU Data Bus 15	
	" - 27	" - 24	"			27	GND	G		GND	
	" - 28	" - 23	"			28	IPU_A(1)	→		IPU Address Bus 1	
	" - 29	" - 22	"			29	IPU_A(2)	→		IPU Address Bus 2	
	" - 30	" - 21	"			30	IPU_A(3)	→		IPU Address Bus 3	
	" - 31	" - 20	"			31	IPU_A(4)	→		IPU Address Bus 4	
	" - 32	" - 19	"			32	IPU_A(5)	→		IPU Address Bus 5	
	" - 33	" - 18	"			33	IPU_A(6)	→		IPU Address Bus 6	
	" - 34	" - 17	"			34	IPU_A(7)	→		IPU Address Bus 7	
	" - 35	" - 16	"			35	IPU_A(8)	→		IPU Address Bus 8	
	" - 36	" - 15	"			36	IPU_A(9)	→		IPU Address Bus 9	
	" - 37	" - 14	"			37	GND	G		GND	
	" - 38	" - 13	"			38	IPU_A(10)	→		IPU Address Bus 10	
	" - 39	" - 12	"			39	IPU_A(11)	→		IPU Address Bus 11	
	" - 40	" - 11	"			40	IPU_A(12)	→		IPU Address Bus 12	
	" - 41	" - 10	"			41	IPU_A(13)	→		IPU Address Bus 13	
	" - 42	" - 9	"			42	IPU_A(14)	→		IPU Address Bus 14	
	" - 43	" - 8	"			43	IPU_A(15)	→		IPU Address Bus 15	
	" - 44	" - 7	"			44	IPU_A(16)	→		IPU Address Bus 16	
	" - 45	" - 6	"			45	IPU_A(17)	→		IPU Address Bus 17	
	" - 46	" - 5	"			46	IPU_A(18)	→		IPU Address Bus 18	
	" - 47	" - 4	"			47	GND	G		GND	
	" - 48	" - 3	"			48	IPU_CS_N_O	→		MACARON Chip Selection	
	" - 49	" - 2	"			49	GND	G		GND	
	" - 50	" - 1	"			50	FB_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			1	AC-IN/N	P		AC Input: N	
	INLET_E	T1	Green/Yellow							Earth	
D2025396 (Mainframe)	CN121 - 1	CN930 - 3	Orange	BCU	CN121	1	+24V	P	DHB	+24V	
	" - 2	" - 2	"			2	PSU_HURY_P	→		Dehumidifier Relay: PWM	
	" - 3	" - 1	"			3	GND	G		GND	
D2025397 (Mainframe)	CN904 - 1	CN920 - 3	White	PSU	CN904	1	AC-OUT/N	P	DHB	AC Relay: N	
	" - 2	" - 2	"			2	NC	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	" - 1	"			3	NC	N	NC		
	" - 4	CN1 - 1	White			4	AC_L_DEHUHT3	P	Paper Feed Heater	Paper Feed Heater: L	
D2025399 (Mainframe)	CN922 - 1	CN2 - 1	"	DHB	CN922	5	AC_L_DEHUHT4	P	Paper Bank Heater	Paper Bank Heater: L	
	" - 2	CN1 - 2	Blue			1	AC_N_DEHUHT1	P	Anti-condensation Heater (Scanner)	Anti-condensation Heater (Scanner): N	
	" - 3	CN2 - 2	"			2	AC_N_DEHUHT2	P	Anti-condensation Heater (PCU)	Anti-condensation Heater (PCU): N	
	" - 4	CN1 - 1	"			3	AC_L_DEHUHT1	P	Anti-condensation Heater (Scanner)	Anti-condensation Heater (Scanner): L	
" - 5	CN2 - 1	"	4	AC_L_DEHUHT2	P	Anti-condensation Heater (PCU)	Anti-condensation Heater (PCU): L				

MP/2555/3055/3555/4055/5055/6055 Harness Pin Assignment (Mainframe)

Harness Information					From/To Information									
Part Number	Start	End	Color	From	Pin No.	Logical Signal Name	I/O	To	Signal Name	Note				
D2024695 (Duplex Unit)	CN123	A1	Yellow	BCU	CN123	A1	RD PINMT_ENC-A	↔	Duplex Entrance Motor	Duplex Entrance Motor: Encoder A	from: BCU (CN123) →D2024695 (Duplex Unit) →D2024672 (Duplex Unit) →end to: Electrical Components			
	"	A2	"		A2	RD PINMT_ENC-B	↔	Duplex Entrance Motor: Encoder B						
	"	A3	"		A3	+5V	P	+5V						
	"	A4	"		A4	RD PINMT_CW	↔	Duplex Entrance Motor: Rotating Direction						
	"	A5	"		A5	RD PINMT_PWM	↔	Duplex Entrance Motor: Clock						
	"	A6	"		A6	RD PINMT_BRK_N	↔	Duplex Entrance Motor: Brake						
	"	A7	"		A7	GND	G	GND						
	"	A8	"		A8	+24VS	P	+24VS						
	"	A9	CN2		"	A9	GND	G	GND					
	"	A10	"		"	A10	RD PINSN_SNS	↔	D2024695 (Duplex Unit)	Duplex Entrance Sensor				
	"	A11	"		"	A11	+5V	P	end to: Duplex Entrance Sensor	+5V				
	"	A12	"		"	A12	NC	N	NC	NC				
	"	A13	"		"	A13	NC	N	NC	NC				
	"	B1	CN3	Yellow	BCU	B1	HDP_MT_ENC-A	↔	Duplex/Bypass Motor	Duplex/By-pass Motor: Encoder A				
	"	B2	"	"		B2	HDP_MT_ENC-B	↔		Duplex/By-pass Motor: Encoder B				
	"	B3	"	"		B3	+5V	P		+5V				
	"	B4	"	"		B4	HDP_MT_CW	↔		Duplex/By-pass Motor: Rotating Direction				
	"	B5	"	"		B5	HDP_MT_PWM	↔		Duplex/By-pass Motor: Clock				
	"	B6	"	"		B6	HDP_MT_BRK_N	↔		Duplex/By-pass Motor: Brake				
	"	B7	"	"		B7	GND	G		GND				
	"	B8	"	"		B8	+24VS	P		+24VS				
	"	B9	CN4	"		B9	GND	G	GND					
	"	B10	"	"		B10	RDPOUSN_SNS	↔	Duplex Exit Sensor					
	"	B11	"	"		B11	+5V	P	+5V					
	"	B12	CN5	"		B12	GND	G	GND					
	"	B13	"	"		B13	RGPOCSN_SW1	↔	Duplex Guide Switch					
	"	CN112	1	"	CN112	1	+24VS	P	D2022643 (Bypass Unit)	Bypass Pick-up Solenoid: PWM				
	"	"	2	"		2	HHDPUSL_OUT2	↔	end to:	GND				
	"	"	3	"		3	GND	G	*Bypass Pick-up Solenoid	Bypass Paper End Sensor				
	"	"	4	"		4	HHDPESN_SNS	↔	*Bypass Paper End Sensor	+5V				
	"	"	5	"		5	+5V	P		+5V				
	"	"	6	CN7		6	HHDMLSW_SW2	↔	D2022645 (Bypass Unit)	Bypass Length Sensor: 2				
	"	"	7	"		7	HHDMLSW_SW1	↔	end to:	Bypass Length Sensor: 1				
	"	"	8	"		8	GND	G	*Bypass Length Sensor	GND				
	"	"	9	"		9	HHDMLSW_SW4	↔	*Bypass Width Sensor (SW)	Bypass Length Sensor: 4				
	"	"	10	"		10	HHDMLSW_SW3	↔	Bypass Length Sensor: 3					
	"	"	11	"		11	GND	G		GND				
	"	"	12	"	12	HHDSLNS_SNS	↔	Bypass Width Sensor (SW)	+5V					
	"	"	13	"	13	+5V	P		+5V					
	D2022643 (Bypass Unit)	CN1	1	Purple	D2024695 (Duplex Unit)	CN6	5	+24VS	P	Bypass Pickup Solenoid		+24VS	from: BCU (CN112) →D2024695 (Duplex Unit) →D2022643 (Bypass Unit) →end to: Electrical Components	
		"	2	"			"	NC	N			NC		
		"	3	"			"	4	HHDPUSL_OUT2			↔		Bypass Pickup Solenoid: PWM
		"	4	"			"	3	GND			G		GND
		"	5	CN7			"	2	HHDPESN_SNS			↔		Bypass Paper End Sensor
D2022645 (Bypass Unit)	CN1	1	Purple	D2024695 (Duplex Unit)	CN7	8	HHDMLSW_SW2	↔	Bypass Width Sensor (Bypass Width Switch)	Bypass Width Sensor (Bypass Width Switch) 2	from: BCU (CN112) →D2024695 (Duplex Unit) →D2022645 (Bypass Unit) →end to: Electrical Components			
	"	2	"			"	7	HHDMLSW_SW1		↔		Bypass Width Sensor (Bypass Width Switch) 1		
	"	3	"			"	6	GND	G	GND				
	"	4	"			"	5	HHDMLSW_SW4	↔	Bypass Width Sensor (Bypass Width Switch) 4				
	"	5	"			"	4	HHDMLSW_SW3	↔	Bypass Width Sensor (Bypass Width Switch) 3				
	"	6	CN7			"	3	GND	G	GND				
	"	7	"			"	2	HHDSLNS_SNS	↔	Bypass Length Sensor				
	"	8	"			"	1	+5V	P	Bypass Length Sensor				
	"	T1	T2			"	1	Earth	-	Earth		Earth		
	"	T2	T4			"	-	Earth	-	Earth		Earth		
D2024672 (Duplex Unit)	CN1	1	Yellow	D2024695 (Duplex Unit)	CN2	3	GND	G	D2024695 (Duplex Unit)	GND	from: BCU (CN123) →D2024695 (Duplex Unit) →D2024672 (Duplex Unit) →end to: Electrical Components			
	"	2	"			"	2	RD PINSN_SNS		↔		Duplex Entrance Sensor		
	"	3	"			"	1	+5V		P		+5V		
D2022708 (1st/2nd Paper Feed Unit)	CN1	1	Purple	D2895321/D2865321 (Mainframe)	CN1 (1st Paper Feed Unit) CN5 (2nd Paper Feed Unit)	1	+24VS	P	D1492708 (1st/2nd Paper Feed Unit)	NC	from: BCU (CN110/111) →D2895321/D2865321 (Mainframe) →D2022708 (1st/2nd Paper Feed Unit) →end to: Electrical Components			
	"	2	"			"	2	CF1PUSL_OUT2		↔		NC		
	"	3	CN2			"	3	GND		G		GND		
	"	4	"			"	4	CF1SN_SNS		↔		1st/2nd Paper Feed Sensor		
	"	5	"			"	5	+5V		P		+5V		
	"	6	CN3			"	6	GND		G		GND		
	"	7	"			"	7	CH1SN_SNS		↔		1st/2nd Vertical Transport Sensor		
	"	8	"			"	8	+5V		P		+5V		
	"	9	CN4			"	9	GND		G		GND		
	"	10	"			"	10	CT1PESN_SNS		↔		1st/2nd Paper End Sensor		
	"	11	"			"	11	+5V		P		+5V		
	"	12	CN5			"	12	GND		G		GND		
	"	13	"			"	13	CT1ULSN_SNS		↔		1st/2nd Paper Feed Tray Limit Sensor		
	"	14	"			"	14	+5V		P		+5V		
D2024499 (Paper Exit Unit)	CN1	1	Yellow	D2895321/D2865321 (Mainframe)	CN9	1	+24VS	P	Paper Exit Switching Solenoid	+24VS	from: BCU (CN124, CN125) →D2895321/D2865321 (Mainframe) →D2024499 (Paper Exit Unit) →end to: Electrical Components			
	"	2	"			"	2	EEXDVS_L_OUT2		↔		Paper Exit Switching Solenoid: PWM		
	"	3	CN3			"	3	GND		G		GND		
	"	4	"			"	4	RRV_SN_SNS	↔	Reverse Sensor				
	"	5	"			"	5	+5V	P	+5V				
	"	6	CN4			"	6	GND	G	GND				
	"	7	"			"	7	EEX_SN_SNS	↔	Paper Exit Sensor				
	"	8	"			"	8	+5V	P	+5V				
	"	9	CN5			"	9	GND	G	GND				
	"	10	"			"	10	EEXFLSN_SNS	↔	Paper Exit Full Sensor				
	"	11	"			"	11	+5V	P	+5V				
	"	12	CN7			"	12	GND	G	GND				
	"	13	"			"	13	FFUOUSN_SNS	↔	Fusing Exit Sensor				
	"	14	"			"	14	+5V	P	+5V				
	"	15	CN6			"	15	RRV_MT_XB	↔	Reverse Motor				
	"	16	"			"	16	RRV_MT_B	↔	Phase XB				
	"	17	"			"	17	RRV_MT_XA	↔	Phase XA				
	"	18	"			"	18	RRV_MT_A	↔	Phase A				
D2022556 (Registration)	CN1	1	Purple	D2895321/D2865321 (Mainframe)	CN12	1	GND	G	D2022556 (Registration) end to: Registration Sensor	GND	from: BCU (CN115) →D2895321/D2865321 (Mainframe) →D2022556 (Registration) →end to: Registration Sensor			
	"	2	"			"	2	CRG_SN_SNS		↔		Registration Sensor		
	"	3	"			"	3	+5V		P		Power: +5V		
D2026237 (Transfer Unit)	CN1	1	Purple	D2895321/D2865321 (Mainframe)	CN16	1	PDRPNSN_V-C	↔	ID Sensor	ID Sensor	from: BCU (CN115) →D2895321/D2865321 (Mainframe) →D2026237 (Transfer Unit) →end to: Electrical Components			
	"	2	"			"	2	PDRPNSN_L-C		↔		ID Sensor: PWM		
	"	3	"			"	3	GND		G		GND		
	"	4	CN3			"	4	+3.3V	P	+3.3V				
	"	5	"			"	5	TTSOCLE_LED-K	↔	Transfer Unit Open/Close LED				
	"	6	"			"	6	+5V	P	+5V				
	"	7	CN4			"	7	GND	G	GND				
	"	8	"			"	8	FFUINSN_SNS	↔	Fusing Entrance Sensor				
	"	9	"			"	9	+5V	P	+5V				
D2023172 (PCU)	CN16	1	Purple	D2895313 (Mainframe)	CN11	1	GND	G	TD Sensor	GND	from: BCU (CN118) →D2895313 (Mainframe) →D2023172 (PCU) →end to: TD Sensor			
	"	2	"			"	2	NTNODSN_VOUT		↔		TD Sensor: Clock IN		
	"	3	"			"	3	+3.3V_ID		P		<TD Sensor>3.3V		
	"	4	"			"	4	NTNODSN_VTCNT		↔		<HST Sensor>5V		
	"	5	"			"	5	NTNODSN_SDA		↔		<TD Sensor>TD Sensor: SEL		
	"	6	"			"	6	NTNODSN_SCL		↔		<HST Sensor>HST Sensor: PWM		

MP2555/3055/3555/4055/5055/6055 Harness Pin Assignment (Scanner-related Part)

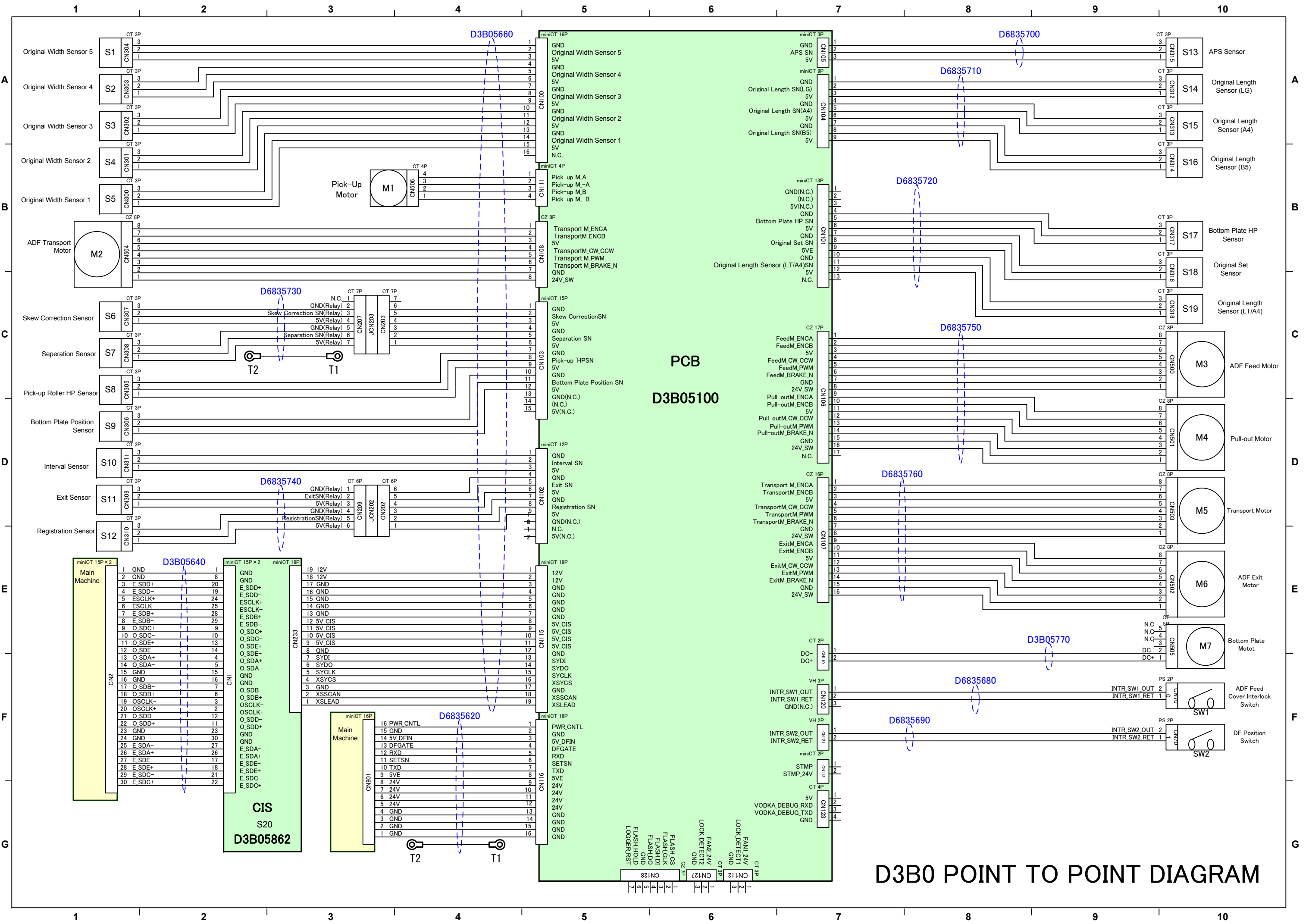
Harness Information				From/To Information						Signal Name	Note
Part Number	Start	End	Color	From	Pin No.	Logical Single Name	I/O	To			
D2895200	CN300 - 1	CN530 - 50	-	SBU	CN300	1	SYDI_SBU	→	IPU	SBUSync Serial RX	
	" - 2	" - 49	-			2	GND	G		GND	
	" - 3	" - 48	-			3	F_TA-	→		LVDS Output Data A-	
	" - 4	" - 47	-			4	F_TA+	→		LVDS Output Data A+	
	" - 5	" - 46	-			5	GND	→		GND	
	" - 6	" - 45	-			6	F_TB-	→		LVDS Output Data B-	
	" - 7	" - 44	-			7	F_TB+	→		LVDS Output Data B+	
	" - 8	" - 43	-			8	GND	G		GND	
	" - 9	" - 42	-			9	F_TC-	→		LVDS Output Data C-	
	" - 10	" - 41	-			10	F_TC+	→		LVDS Output Data C+	
	" - 11	" - 40	-			11	GND	G		GND	
	" - 12	" - 39	-			12	F_LVCK-	→		LVDS Transfer Clock-	
	" - 13	" - 38	-			13	F_LVCK+	→		LVDS Transfer Clock+	
	" - 14	" - 37	-			14	GND	G		GND	
	" - 15	" - 36	-			15	F_TD-	→		LVDS Output Data D-	
	" - 16	" - 35	-			16	F_TD+	→		LVDS Output Data D+	
	" - 17	" - 34	-			17	GND	G		GND	
	" - 18	" - 33	-			18	F_TE-	→		LVDS Output Data E-	
	" - 19	" - 32	-			19	F_TE+	→		LVDS Output Data E+	
	" - 20	" - 31	-			20	GND	G		GND	
	" - 21	" - 30	-			21	GND	G		GND	
	" - 22	" - 29	-			22	GND	G		GND	
	" - 23	" - 28	-			23	GND	G		GND	
	" - 24	" - 27	-			24	GND	G		GND	
	" - 25	" - 26	-			25	4.5VS	P		4.5V	
	" - 26	" - 25	-			26	4.5VS	P		4.5V	
	" - 27	" - 24	-			27	4.5VS	P		4.5V	
	" - 28	" - 23	-			28	GND	G		GND	
	" - 29	" - 22	-			29	10VS	P		10V	
	" - 30	" - 21	-			30	10VS	P		10V	
	" - 31	" - 20	-			31	GND	G		GND	
	" - 32	" - 19	-			32	6VS	P		6V	
	" - 33	" - 18	-			33	6VS	P		6V	
	" - 34	" - 17	-			34	6VS	P		6V	
	" - 35	" - 16	-			35	GND	G		GND	
	" - 36	" - 15	-			36	GND	G		GND	
	" - 37	" - 14	-			37	GND	G		GND	
	" - 38	" - 13	-			38	24V_DC	P		24V	
	" - 39	" - 12	-			39	24V_DC	P		24V	
	" - 40	" - 11	-			40	24V_DC	P		24V	
	" - 41	" - 10	-			41	GND	G		GND	
	" - 42	" - 9	-			42	LED_ON_N	→		LED Light-up Signal	
	" - 43	" - 8	-			43	LED_CTL_N	→		Light-up Area CTL	
	" - 44	" - 7	-			44	GND	G		GND	
	" - 45	" - 6	-			45	SFGATE_SBU_N	→		Original Sub-scanning Area Signal	
	" - 46	" - 5	-			46	SHGATE_SBU_N	→		White Board Area Signal	
	" - 47	" - 4	-			47	GND	G		GND	
	" - 48	" - 3	-			48	SYCLK_SBU	→		SBUSync SerialClock	
	" - 49	" - 2	-			49	SYDO_SBU	→		SBUSync Serial TX	
	" - 50	" - 1	-			50	SYCS_SBU_N	→		SBUSync SerialCS	
D2895202	CN318 - 1	CN1 - 3	Orange	IPU	CN318	1	GND	G	Scanner HP Sensor	GND	
	" - 2	" - 2	"			2	HPS_SNES	→		Home Position Signal	H: Detects home position
	" - 3	" - 1	"			3	+5.9V	P		+5.9V	
	" - 4	CN2 - 3	"			4	GND	G		DF Position Sensor	
	" - 5	" - 2	"			5	XAKS	→		DF Position Sensor	L: Open; H: Close
	" - 6	" - 1	"			6	5VE_AKS	P		5VE	Power Source for Sensor
D2895204	CN314 - 1	CN1 - 3	White	IPU	CN314	1	B	→	Scanner Motor	Phase B	
	" - 2	" - 2	"			2	-	→			
	CN314 - 3	" - 6	White			3	A/	→		A/ Phase	
	" - 5	" - 5	"			4	A	→		Phase A	
D2895203	CN313 - 1	CN1 - 3	Orange	IPU	CN313	1	GND	G	Original Size Sensor 1	GND	
	" - 2	" - 2	"			2	APS1_V	→		Original Size Sensor 1	H: Detects Original
	" - 3	" - 1	"			3	3.3V_APS	P		3.3V	
	" - 4	CN2 - 3	"			4	GND	G	Original Size Sensor 2		
	" - 5	" - 2	"			5	APS2_V	→	Original Size Sensor 2	H: Detects Original	
	" - 6	" - 1	"			6	3.3V_APS	→	3.3V		
	" - 7	" - 1	"			7	GND	P	GND		
D2895205	CN312 - 1	CN100 - 16	-	IPU	CN312	1	GND_ADF	G	ADF (COOK-B or SINAI-E)	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	Power Source for Sensor
	" - 10	" - 7	-			10	ADF_TXD	→		ADF - Mainframe UART TX	Mainframe→ADF
	" - 11	" - 6	-			11	XDOCSET	→		ADF Original Set Detection	L: Detects Original
	" - 12	" - 5	-			12	ADF_RXD	→		ADF - Mainframe UART RX	Mainframe→ADF
	" - 13	" - 4	-			13	DFGATE_N	→		ADF Gate Signal	L: Scanning
	" - 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	
D2415207	CN350 - 1	CN100 - 13	-	SBU	CN350	1	LED_1	→	LEDB	LED1 - 5 Drive	
	" - 2	" - 12	-			2	LED_2	→		LED6 - 10 Drive	
	" - 3	" - 11	-			3	LED_3	→		LED11 - 15 Drive	
	" - 4	" - 10	-			4	LED_4	→		LED16 - 20 Drive	
	" - 5	" - 9	-			5	LED_5	→		LED21 - 25 Drive	
	" - 6	" - 8	-			6	LED_6	→		LED26 - 30 Drive	
	" - 7	" - 7	-			7	LED_7	→		LED31 - 35 Drive	
	" - 8	" - 6	-			8	LED_8	→		LED36 - 40 Drive	
	" - 9	" - 5	-			9	LED_9	→		LED41 - 45 Drive	
	" - 10	" - 4	-			10	LED_10	→		LED46 - 50 Drive	
	" - 11	" - 3	-			11	-	-		-	Prevention from crash by slanted parts (22k Pull-down Resistor on the SBU side)
	" - 12	" - 2	-			12	V_LED	P		LED Drive Power	
	" - 13	" - 1	-			13	V_LED	P		LED Drive Power	

MP2555/3055/3555/4055/5055/6055 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			LDB	GND			
	" - 2	" - 9	"			2	GND	G		GND			
	" - 3	" - 8	"			3	DETP_N	→		Sync Detection Signal			
	" - 4	" - 7	"			4	SYDO	→		Serial Communication Read Data			
	" - 5	" - 6	"			5	SYDI	→		Serial Communication Write Data			
	" - 6	" - 5	"			6	SYCLK	→		Serial Communication Clock			
	" - 7	" - 4	"			7	SYCS_N	→		Serial Communication Chip Selection			
	" - 8	" - 3	"			8	DROPEN	→		Door Open Signal			
	" - 9	" - 2	"			9	ERR_N	→		G-MAC Error Signal			
	" - 10	" - 1	"			10	APC_N	→		APC Signal			
	" - 11	"	"			11	5VS	P		5VS			
	" - 12	"	"			12							
	CN540 - 1					IPU	CN540	1				LDB	
	" - 2							2					
	" - 3	CN402 - 2	Purple					3		LDD1_N	→		LD Light-up Data Signal (-)
	" - 4	" - 1	White					4		LDD1_N	→		LD Light-up Data Signal (+)
	CN2 - 1	CN536 - 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 - 1	CN402 - 4	Purple			IPU	CN540	1		LDD2_N	→	LDB	LD Light-up Signal Beam 2(-)
	" - 2	" - 3	White					2		LDD2_N	→		LD Light-up Signal Beam 2(+)
	" - 3	" - 2	Purple					3		LDD1_N	→		LD Light-up Signal Beam 1(-)
	" - 4	" - 1	White					4		LDD1_N	→		LD Light-up Signal Beam 1(+)
	CN2 - 1	CN536 - 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					

MP2555/3055/3555/4055/5055/6055 Harness Pin Assignment (Operation Panel)

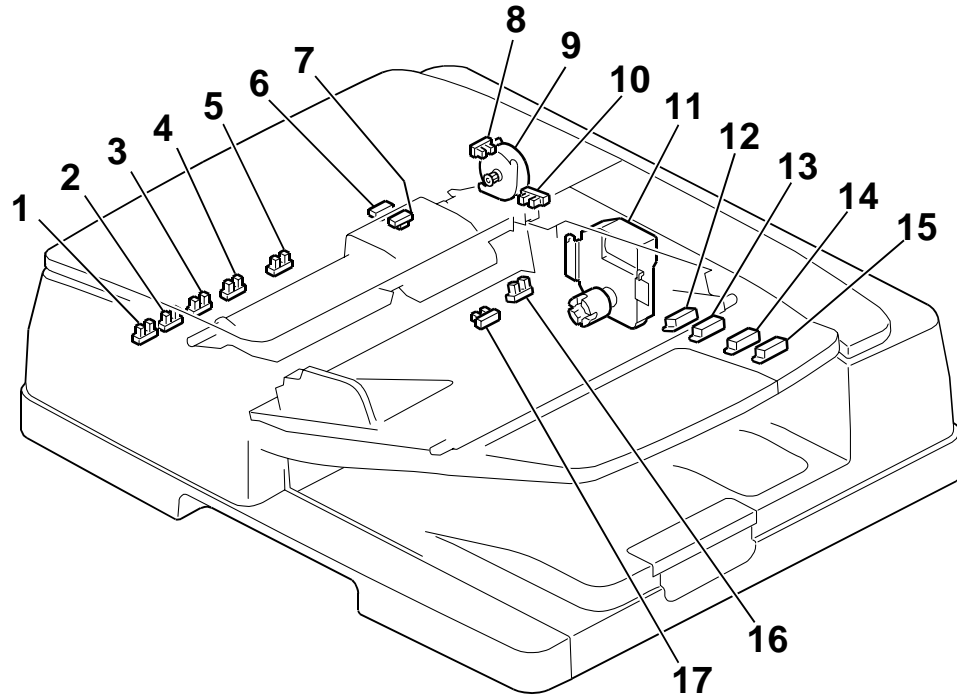
Harness Information				From/To Information					Note	
Part Number	Start	End	Color	From	Pin No.	Logical Signal Name	I/O	To		Signal Name
D2891481	CN1 - 1	CN2 - 1	Black	IPU	CN533	1	VBUS	P	Multi-Link Panel (in house)	VBUS
	" - 2	" - 2	"			2	OPE_USB_M	I/O		OPE_USB_M
	" - 3	" - 3	"			3	OPE_USB_P	I/O		OPE_USB_P
	" - 4	" - 4	"			4	MUL_TRG_N	I/O		MUL_TRG_N
	" - 5	" - 5	"			5	GND	G		GND
	" - 6	" - 6	"			6	VBY_SUB_M	I/O		VBY_SUB_M
	" - 7	" - 7	"			7	VBY_SUB_P	I/O		VBY_SUB_P
	" - 8	" - 8	"			8	GND Drain	G		GND Drain
	" - 9	" - 9	"			9	VBY_TX_M	→		VBY_TX_M
	" - 10	" - 10	"			10	VBY_TX_P	→		VBY_TX_P
D2951561	CN502 - 9	CN1 - 1	Purple	CTL	CN502	1	5VX	P	Panel Mounting Connector	5VX
	" - 8	" - 2	"			2	5VX	P		5VX
	" - 7	" - 3	"			3	5VX	P		5VX
	" - 6	" - 4	"			4	SC672ERR1	→		SC672ERR1
	" - 5	" - 5	"			5	SC672_DET	→		SC672_DET
	" - 4	" - 6	"			6	SC_EN_N	→		SC_EN_N
	" - 3	" - 7	"			7	GND	G		GND
	" - 2	" - 8	"			8	GND	G		GND
	" - 1	" - 9	"			9	GND	G		GND
D2951562	CN2 - 9	CN1 - 1	Purple	Panel Mounting Connector	CN2	1	5VX	P	Relay Connector	5VX
	" - 8	" - 2	"			2	5VX	P		5VX
	" - 7	" - 3	"			3	5VX	P		5VX
	" - 6	" - 4	"			4	SC672ERR1	→		SC672ERR1
	" - 5	" - 5	"			5	SC672_DET	→		SC672_DET
	" - 4	" - 6	"			6	SC_EN_N	→		SC_EN_N
	" - 3	" - 7	"			7	GND	G		GND
	" - 2	" - 8	"			8	GND	G		GND
	" - 1	" - 9	"			9	GND	G		GND
D2951563	CN2 - 9	CN1 - 1	Black	Relay Connector	CN2	1	5VX	P	Multi-Link Panel (in house)	5VX
	" - 8	" - 2	"			2	5VX	P		5VX
	" - 7	" - 3	"			3	5VX	P		5VX
	" - 6	" - 4	"			4	SC672ERR1	→		SC672ERR1
	" - 5	" - 5	"			5	SC672_DET	→		SC672_DET
	" - 4	" - 6	"			6	SC_EN_N	→		SC_EN_N
	" - 3	" - 7	"			7	GND	G		GND
	" - 2	" - 8	"			8	GND	G		GND
	" - 1	" - 9	"			9	GND	G		GND



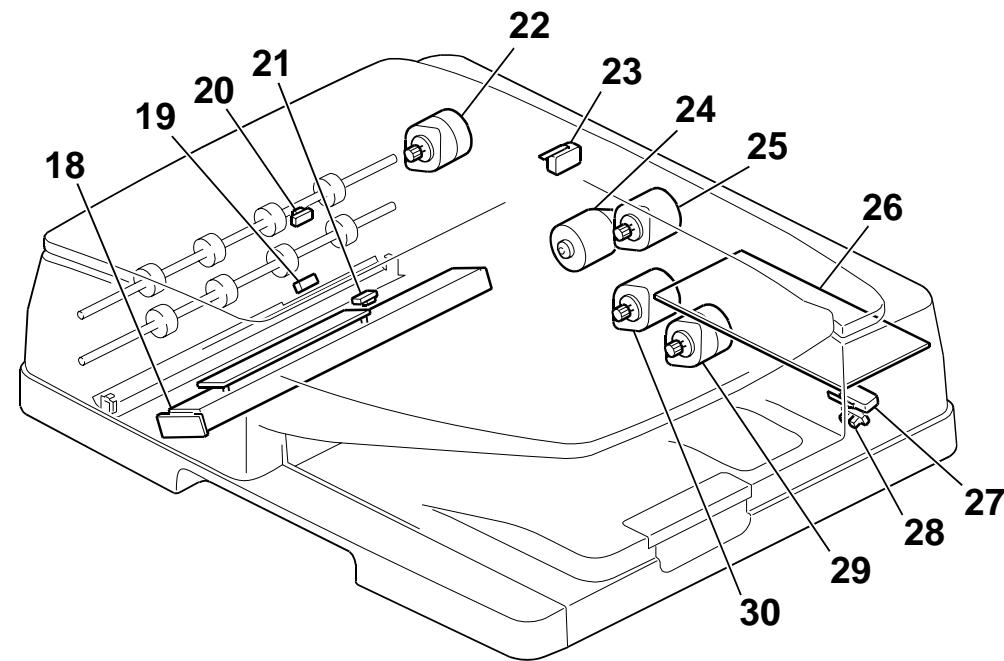
D3B0 POINT TO POINT DIAGRAM



# D3B0 ELECTRICAL COMPONENT LAYOUT

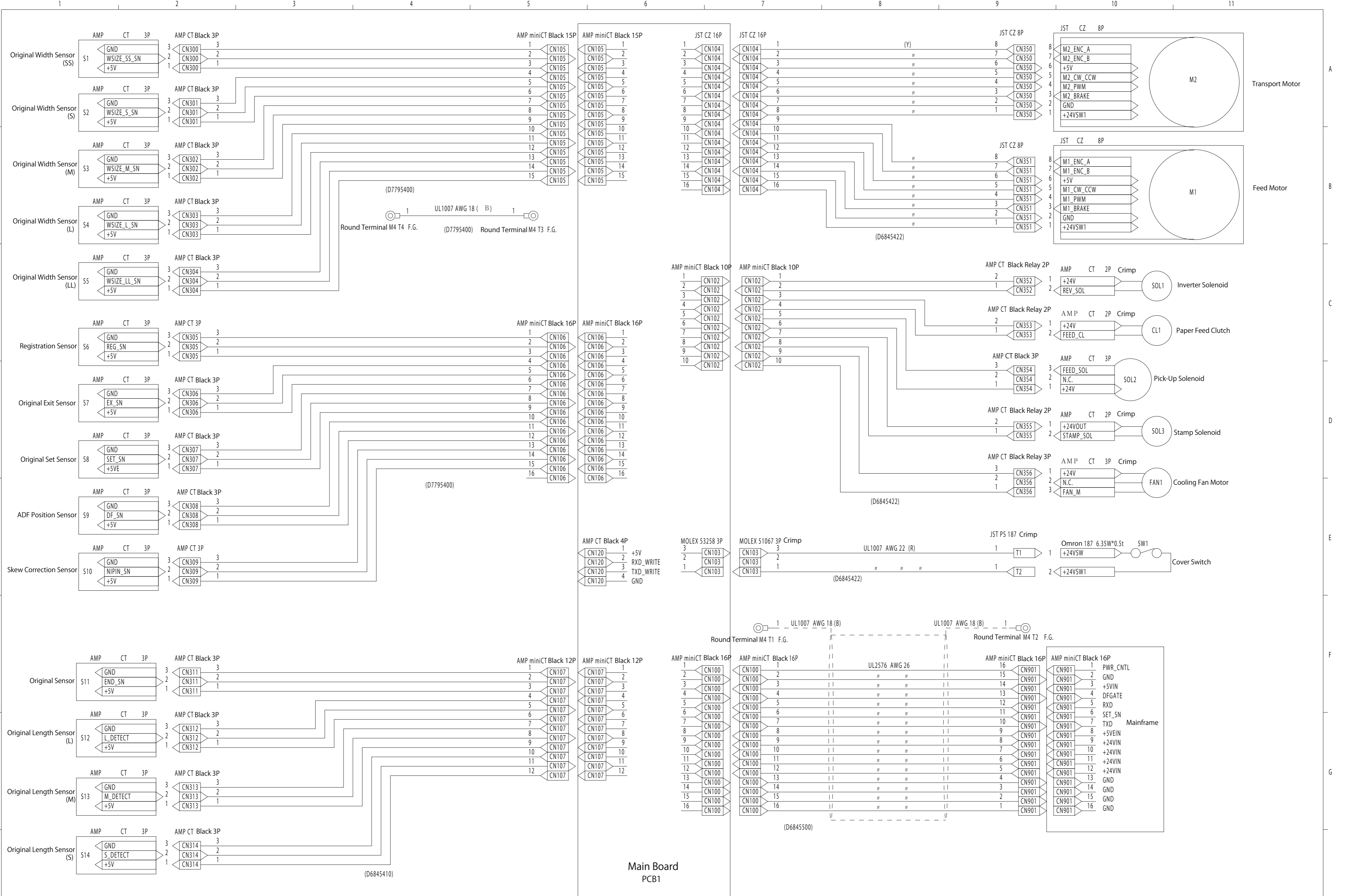


d1359901.wmf



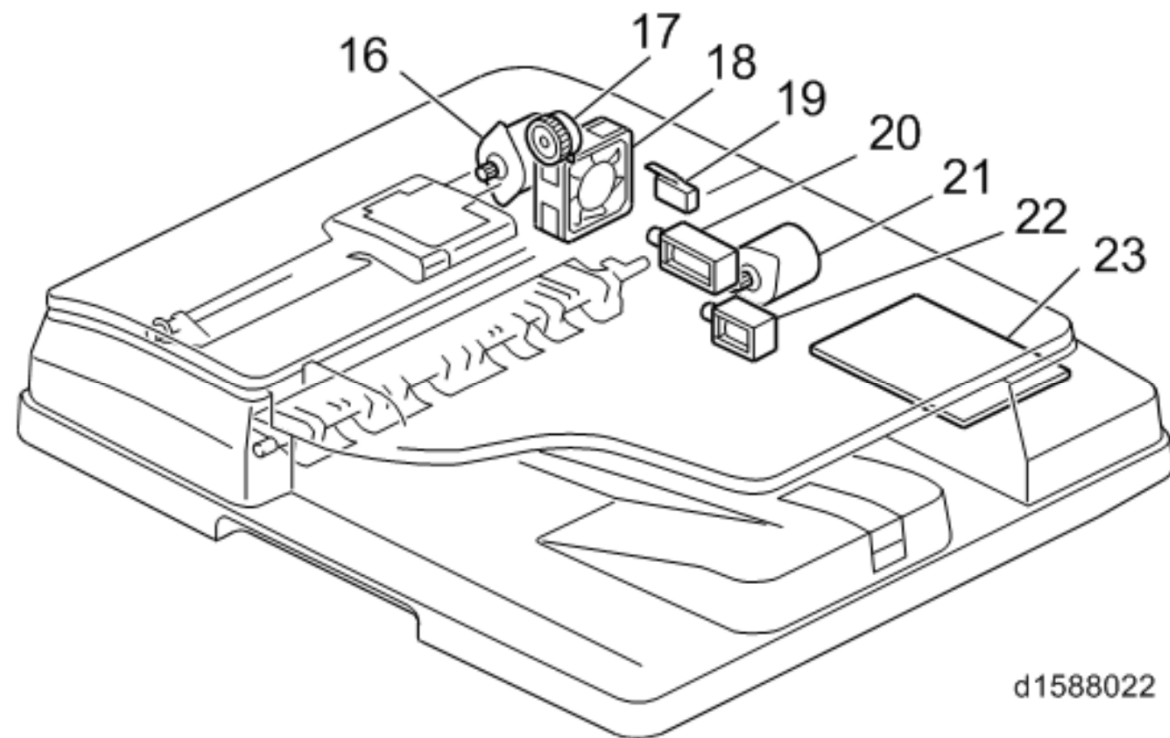
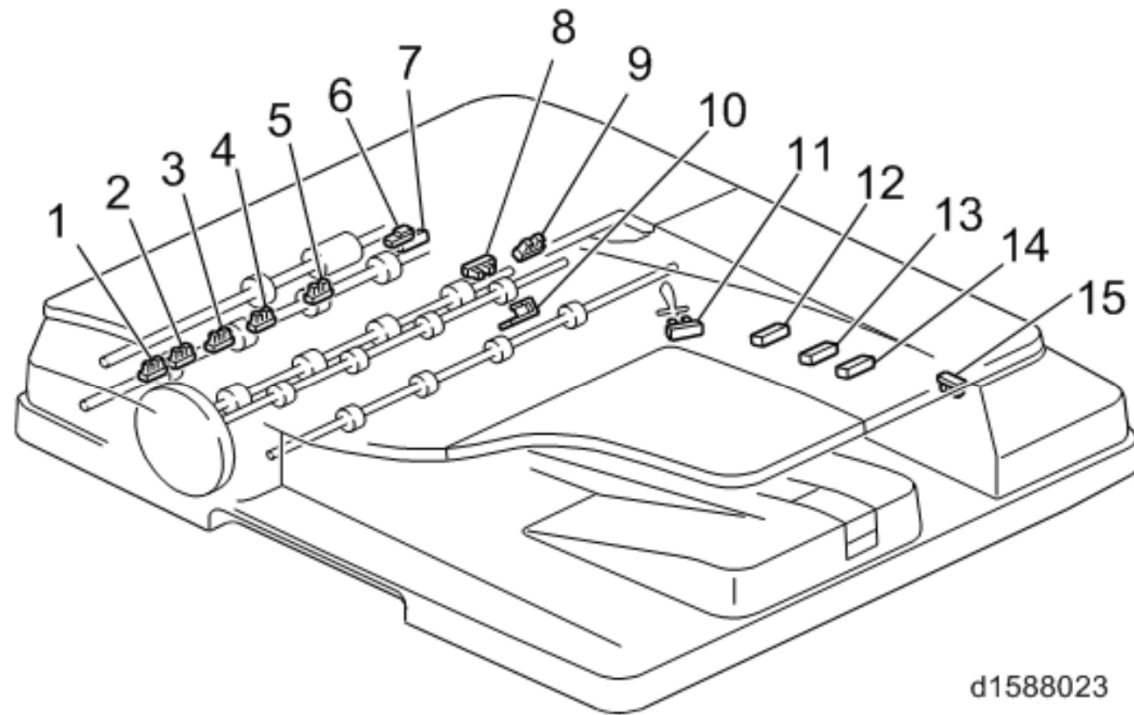
d1359902.wmf

Symbol	Index No.	Description	P to P
<b>Sensors</b>			
S1	1	Original Width Sensor 5	A2
S2	2	Original Width Sensor 4	A2
S3	3	Original Width Sensor 3	B2
S4	4	Original Width Sensor 2	B2
S5	5	Original Width Sensor 1	B2
S6	7	Skew Correction Sensor	C2
S7	6	Seperation Sensor	D2
S8	10	Pick-up Roller HP Sensor	D2
S9	8	Bottom Plate Position Sensor	D2
S10	19	Interval Sensor	D2
S11	21	Exit Sensor	E2
S12	20	Registration Sensor	E2
S13	28	APS Sensor	A9
S14	15	Original Length Sensor (LG)	A9
S15	14	Original Length Sensor (A4)	B9
S16	13	Original Length Sensor (B5)	B9
S17	17	Bottom Plate HP Sensor	B9
S18	16	Original Set Sensor	B9-C9
S19	12	Original Length Sensor (LT/A4)	C9
S20	18	CIS	F2
<b>Motors</b>			
M1	9	Pick-up Motor	B3
M2	22	ADF Transport Motor	C2
M3	24	ADF Feed Motor	C9
M4	25	Pull-out Motor	D9
M5	30	Transport Motor	D9
M6	29	ADF Exit Motor	E9
M7	11	Bottom Plate Motor	E9
<b>Switches</b>			
SW1	23	ADF Feed Cover Interlock switch	F9
SW2	27	DF Position Switch	F9
<b>PCB</b>			
PCB1	26	ADF Control Board	D5-D6

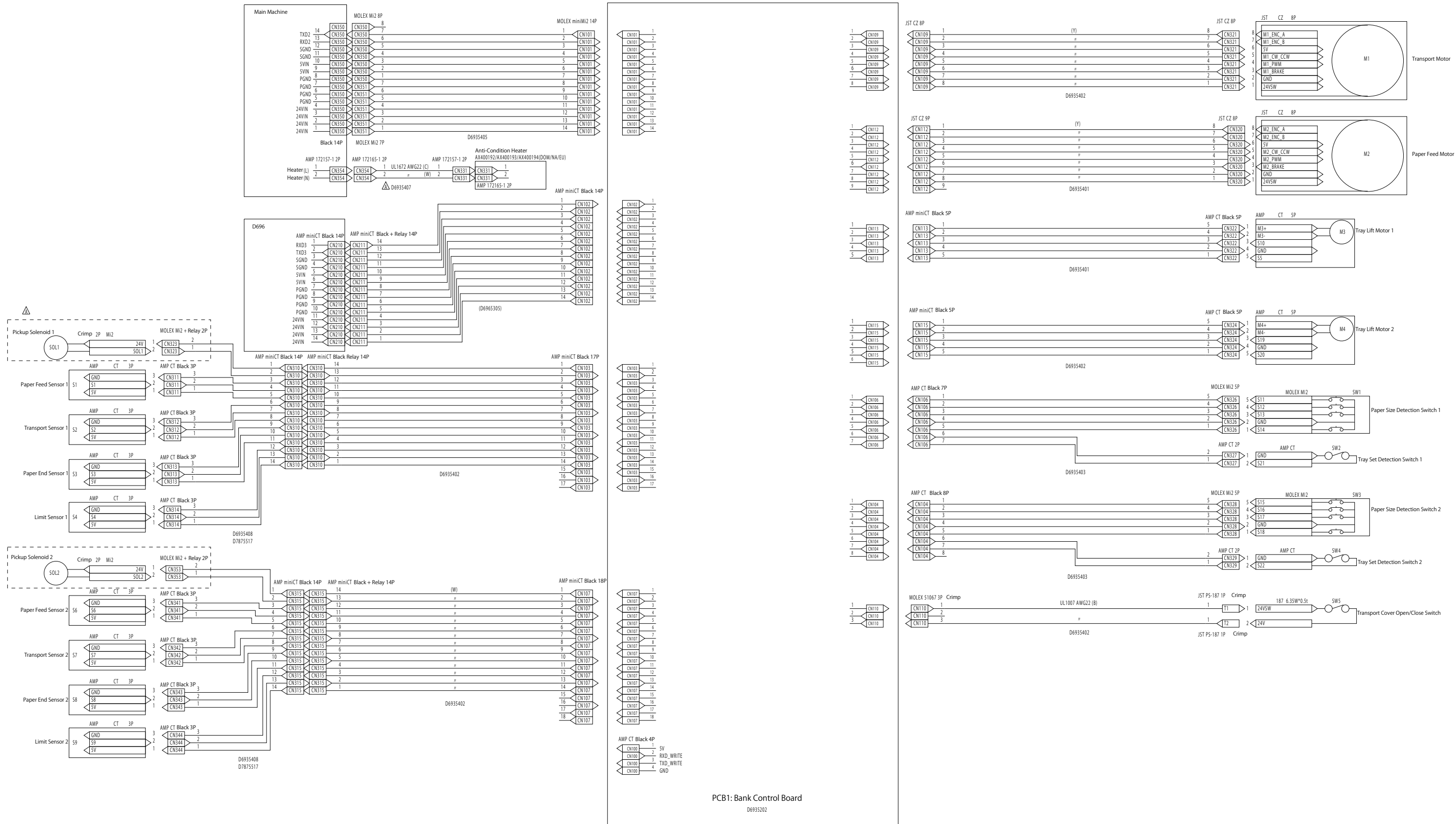


# D779 POINT TO POINT DIAGRAM

# D779 ELECTRICAL COMPONENT LAYOUT

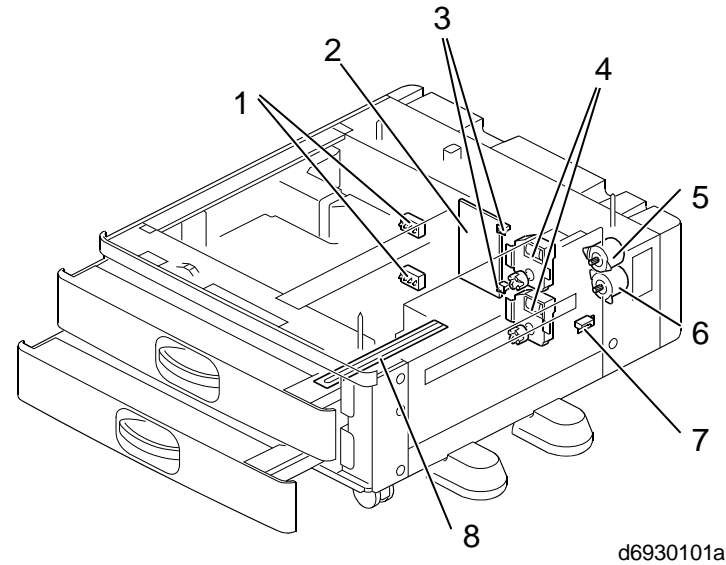


Motors			
Symbol	Index No.	Description	PtoP
M1	21	Feed Motor	B8
M2	16	Transport Motor	A8
M3	18	Cooling Fan Motor	D7
Sensors			
Symbol	Index No.	Description	PtoP
S1	5	Original Width Sensor (SS)	A1
S2	4	Original Width Sensor (S)	A1
S3	3	Original Width Sensor (M)	B1
S4	2	Original Width Sensor (L)	B1
S5	1	Original Width Sensor (LL)	B1
S6	7	Registration Sensor	C1
S7	8	Original Exit Sensor	C1
S8	9	Original Set Sensor	C1
S9	15	ADF Position Sensor	D1
S10	6	Skew Correction Sensor	D1
S11	11	Original Sensor	E1
S12	14	Original Length Sensor (L)	E1
S13	13	Original Length Sensor (M)	E1
S14	12	Original Length Sensor (S)	H1
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

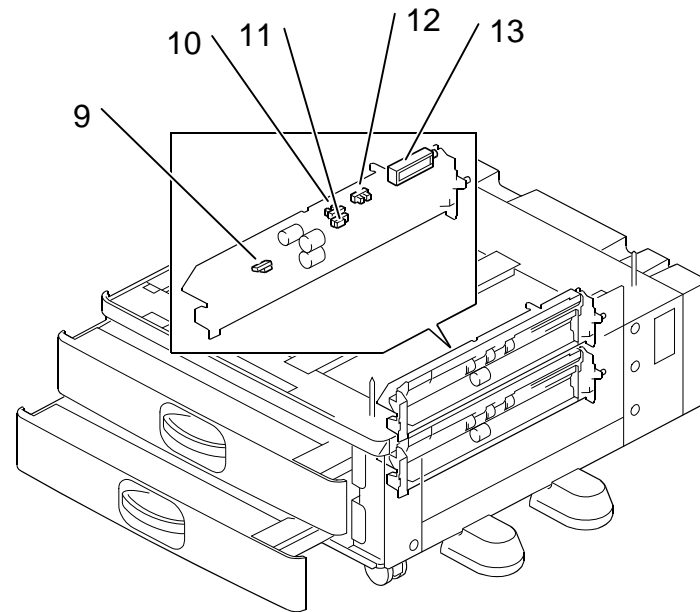


PCB1: Bank Control Board  
D6935202

# D787 ELECTRICAL COMPONENT LAYOUT



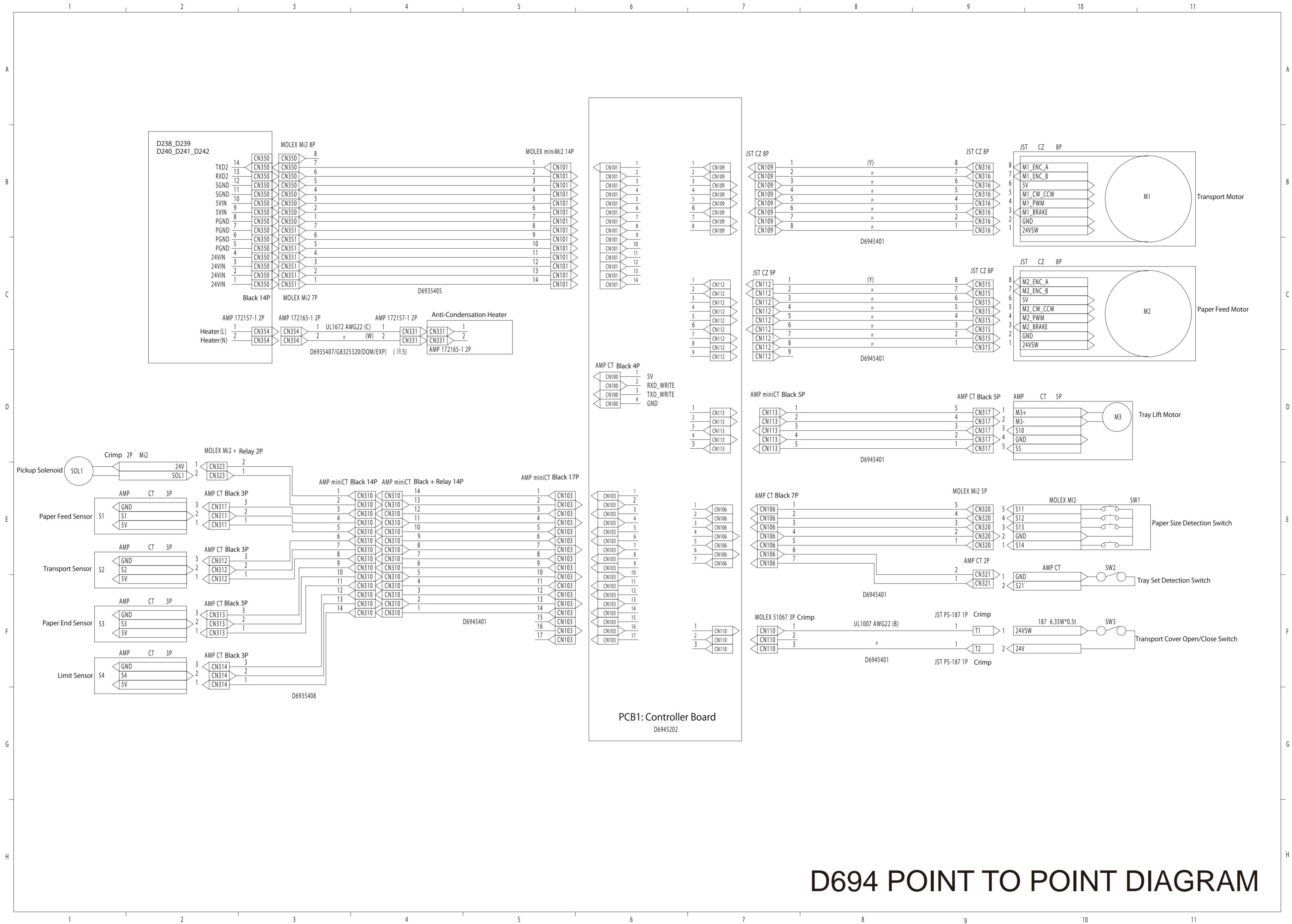
d6930101a



d6930102

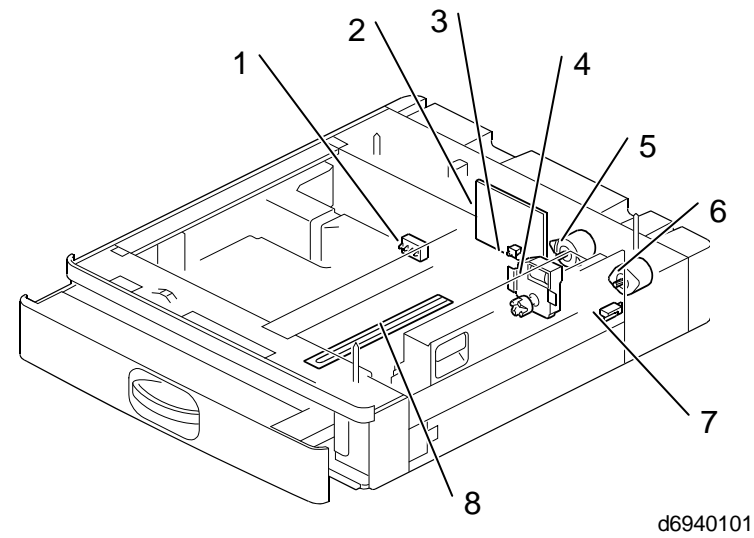
Motors			
Symbol	Index No.	Description	PtoP
M1	6	Transport Motor	C16
M2	5	Paper Feed Motor	D16
M3	4	Tray Lift Motor 1	D16
M4	4	Tray Lift Motor 2	E16
Sensors			
Symbol	Index No.	Description	PtoP
S1	9	Paper Feed Sensor 1	F1
S2	11	Transport Sensor 1	G1
S3	10	Paper End Sensor 1	G1
S4	12	Limit Sensor 1	H1
S5	-	-	-
S6	9	Paper Feed Sensor 2	I1
S7	11	Transport Sensor 2	I1
S8	10	Paper End Sensor 2	I1
S9	12	Limit Sensor 2	J1
Solenoids			
Symbol	Index No.	Description	PtoP
SOL1	13	Pickup Solenoid 1	F1
SOL2	13	Pickup Solenoid 2	H1
Switches			
Symbol	Index No.	Description	PtoP
SW1	1	Paper Size Detection Switch 1	F16
SW2	3	Tray Set Detection Switch 1	G16
SW3	1	Paper Size Detection Switch 2	G16
SW4	3	Tray Set Detection Switch 2	H16
SW5	7	Transport Cover Open/Close Switch	H16
PCB			
Symbol	Index No.	Description	PtoP
PCB1	2	Bank Control Board	J9
Others			
Symbol	Index No.	Description	PtoP
HTR	8	Anti-Condensation Heater	D6



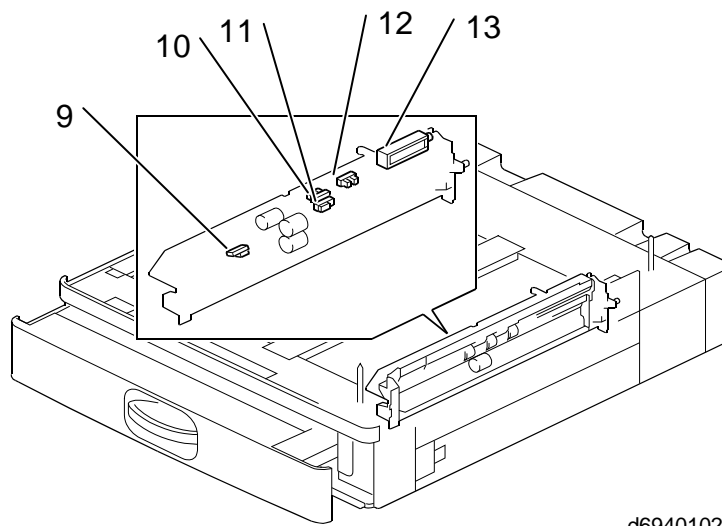


# D694 POINT TO POINT DIAGRAM

# D694 ELECTRICAL COMPONENT LAYOUT



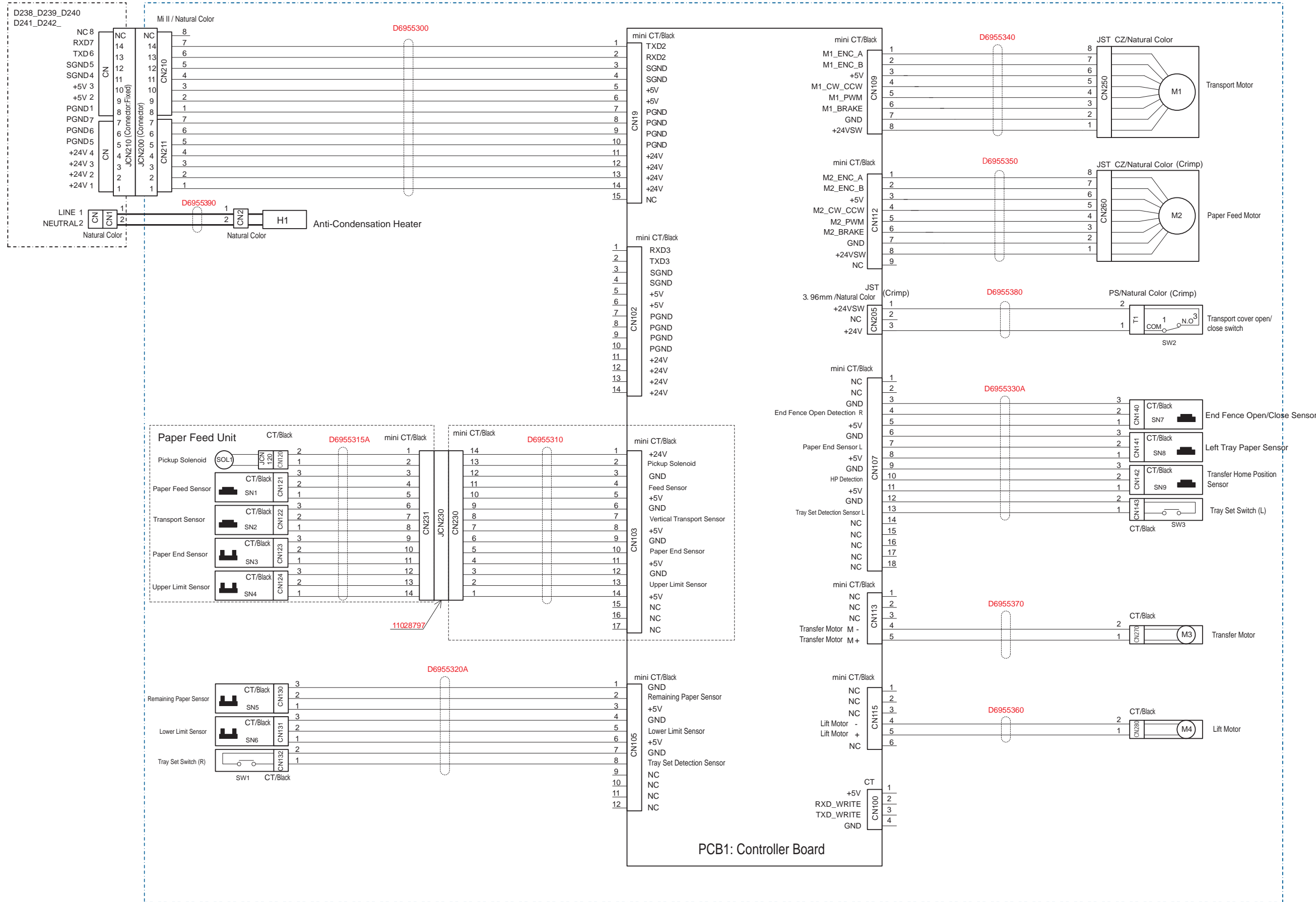
d6940101



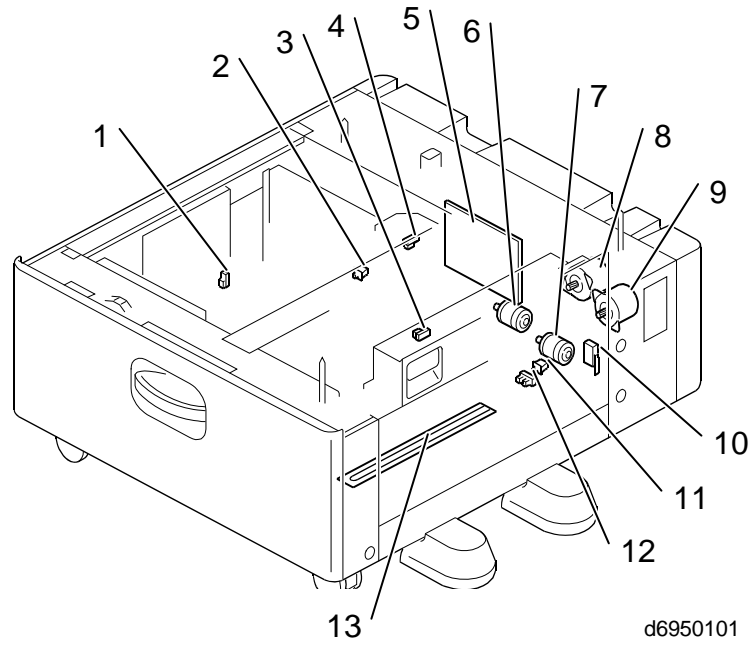
d6940102

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 Switch	E7
PCB			
Symbol	Index No.	Description	PtoP
PCB1	2	Controller Board	E4
Others			
Symbol	Index No.	Description	PtoP
HTR	8	Anti-Condensation Heater	C3

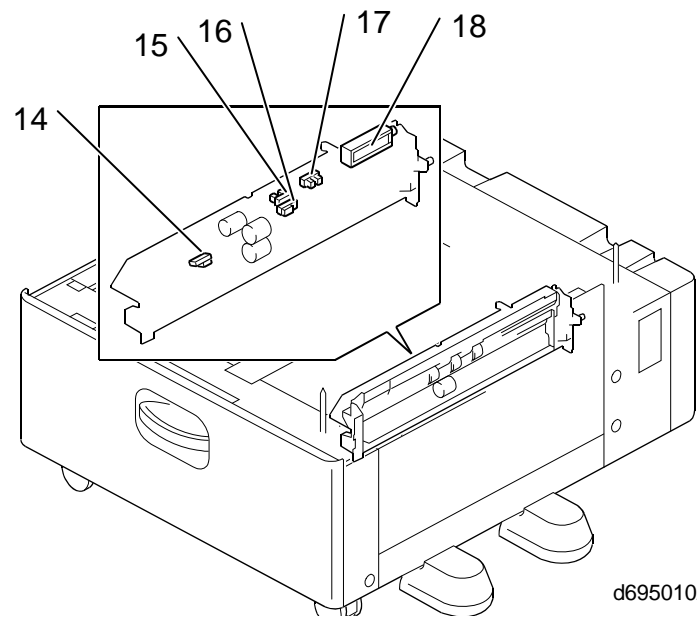
# D695 POINT TO POINT DIAGRAM



# D695 ELECTRICAL COMPONENT LAYOUT



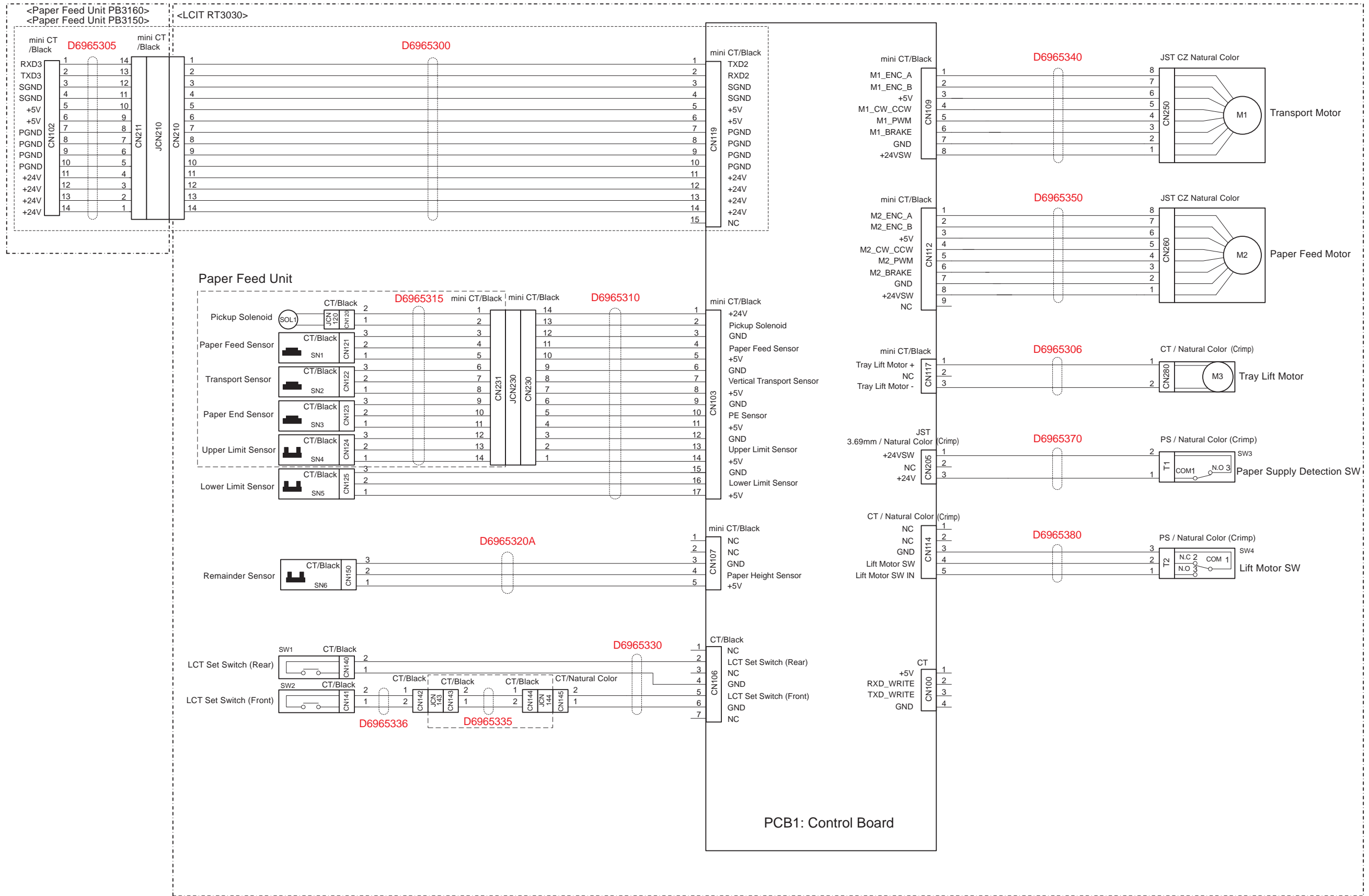
d6950101



d6950102

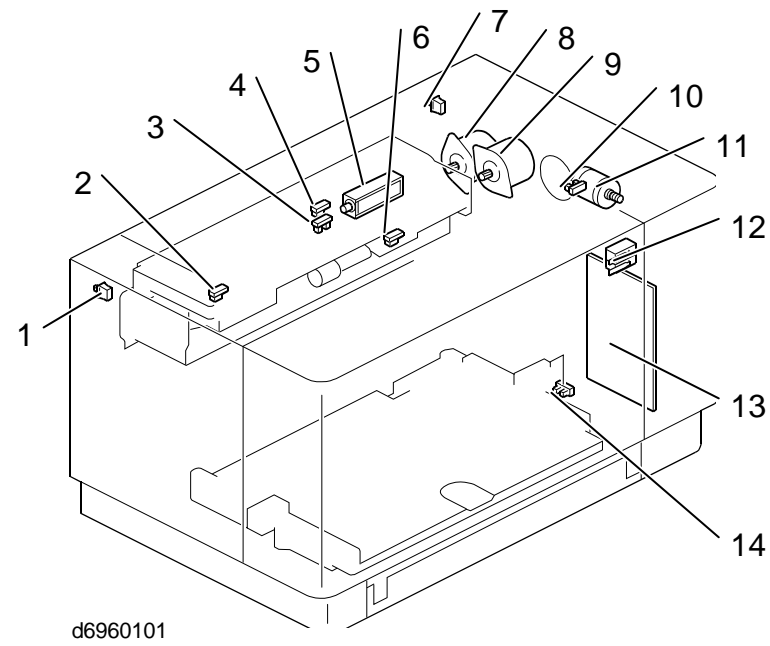
Motors			
Symbol	Index No.	Description	PtoP
M1	6	Transport Motor	B7
M2	8	Paper Feed Motor	B7
M3	6	Transfer Motor	D7
M3	7	Lift Motor	E7
Sensors			
Symbol	Index No.	Description	PtoP
SN1	14	Paper Feed Sensor	D2
SN2	16	Transport Sensor	D2
SN3	15	Paper End Sensor	D2
SN4	17	Upper Limit Sensor	D2
SN5	-	Remaining Paper Sensor	E2
SN6	12	Lower Limit Sensor	E2
SN7	4	End Fence Open/Close Sensor	C7
SN8	3	Left Tray Paper Sensor	C7
SN9	1	Transfer Home Position Sensor	D7
Solenoids			
Symbol	Index No.	Description	PtoP
SOL1	18	Pickup Solenoid	D2
Switches			
Symbol	Index No.	Description	PtoP
SW1	11	Tray Set Switch (R)	E2
SW2	10	Transport Cover Open/Close Switch	C7
SW3			
PCB			
Symbol	Index No.	Description	PtoP
PCB1	5	Controller Board	F5
Others			
Symbol	Index No.	Description	PtoP
H1	13	Anti-Condensation Heater	B2

# D696 POINT TO POINT DIAGRAM



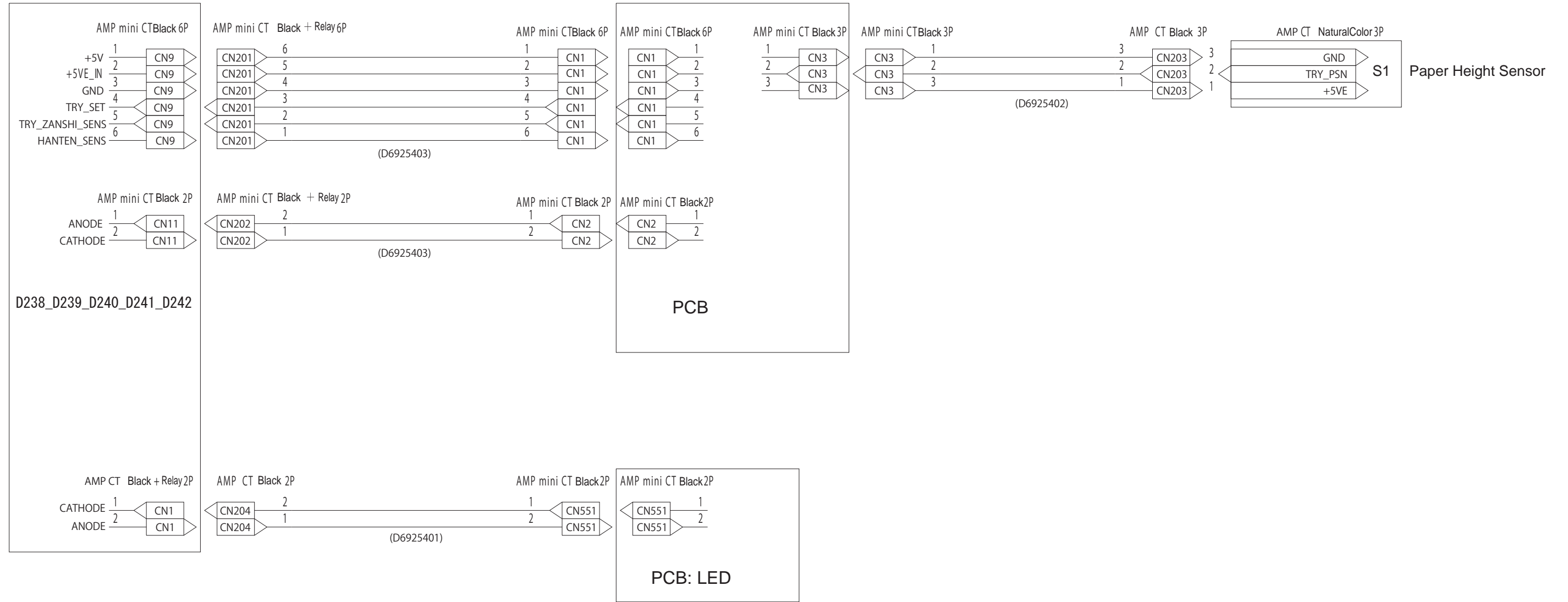


# D696 ELECTRICAL COMPONENT LAYOUT

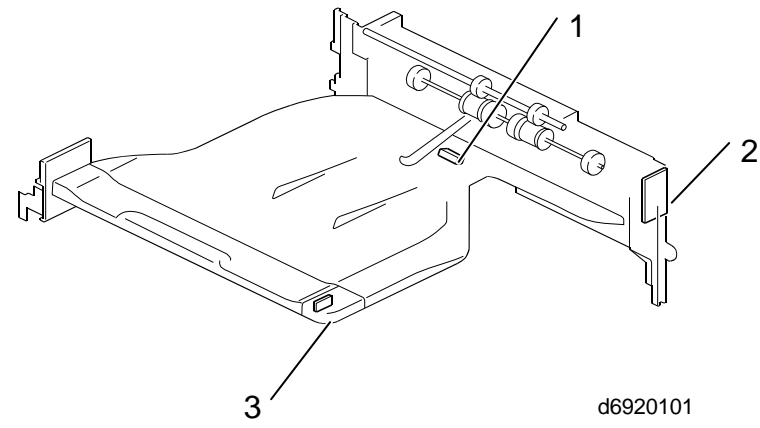


Motors			
Symbol	Index No.	Description	PtoP
M1	8	Transport Motor	B7
M2	9	Paper Feed Motor	C7
M3	11	Tray Lift Motor	C7
Sensors			
Symbol	Index No.	Description	PtoP
SN1	2	Paper Feed Sensor	C2
SN2	4	Transport Sensor	C2
SN3	6	Paper End Sensor	C2
SN4	3	Upper Limit Sensor	C2
SN5	14	Lower Limit Sensor	D2
SN6	10	Remainder Sensor	D2
Solenoids			
Symbol	Index No.	Description	PtoP
SOL1	5	Pickup Solenoid	C2
Switches			
Symbol	Index No.	Description	PtoP
SW1	7	LCT Set Switch (Rear)	E2
SW2	1	LCT Set Switch (Front)	E2
SW3	12	Paper Supply Detection Switch	D7
SW4	12	Lift Motor Switch	D7
PCB			
Symbol	Index No.	Description	PtoP
PCB1	13	Control Board	F5

# D3CQ POINT TO POINT DIAGRAM

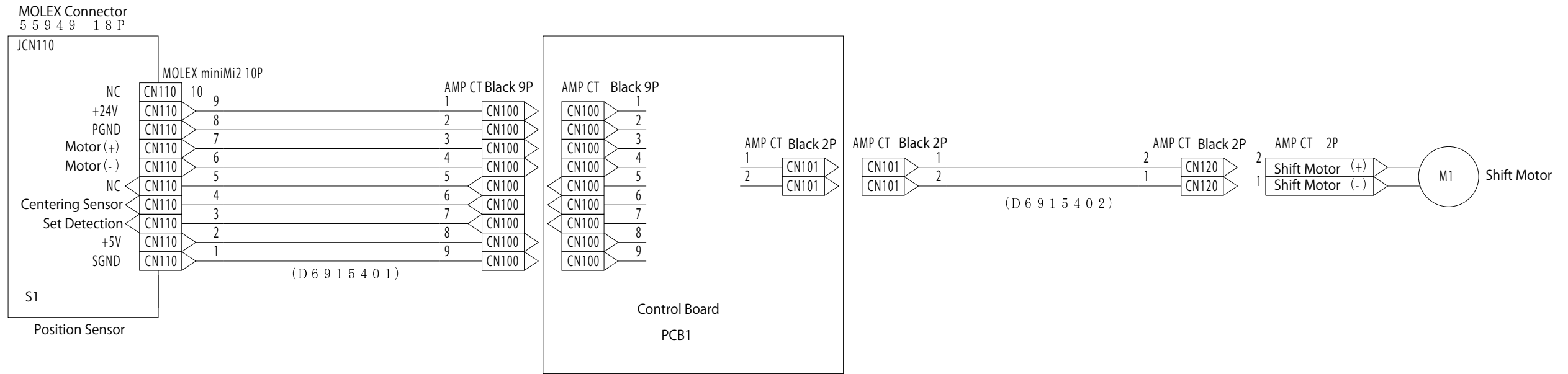


# D3CQ ELECTRICAL COMPONENT LAYOUT

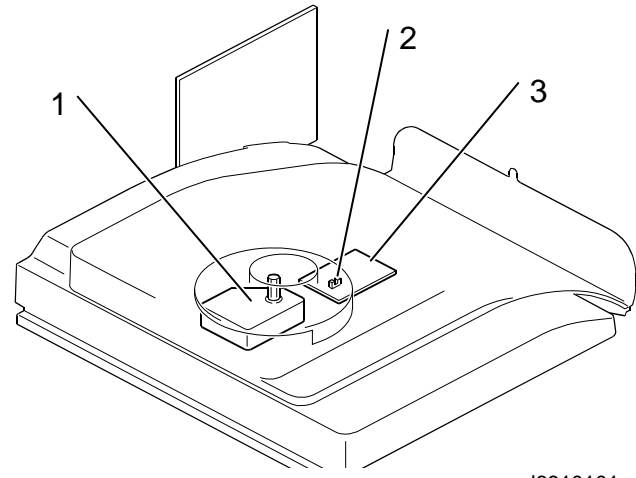


Sensors			
Symbol	Index No.	Description	PtoP
SN1	1	Paper Height Sensor	B7
PCB			
Symbol	Index No.	Description	PtoP
PCB1	2	Control Board	C4
LED			
Symbol	Index No.	Description	PtoP
LED	3	LED	E4

# D691 POINT TO POINT DIAGRAM



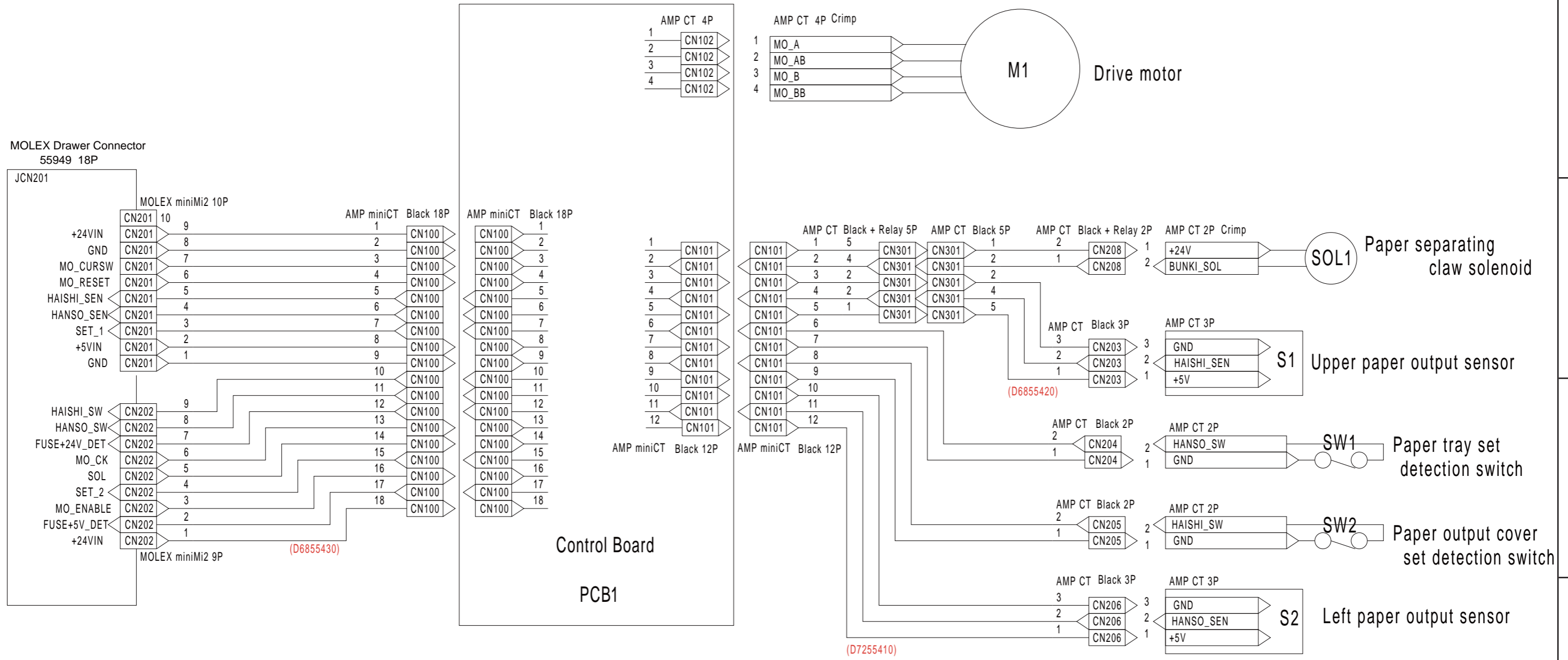
# D691 ELECTRICAL COMPONENT LAYOUT



d6910101

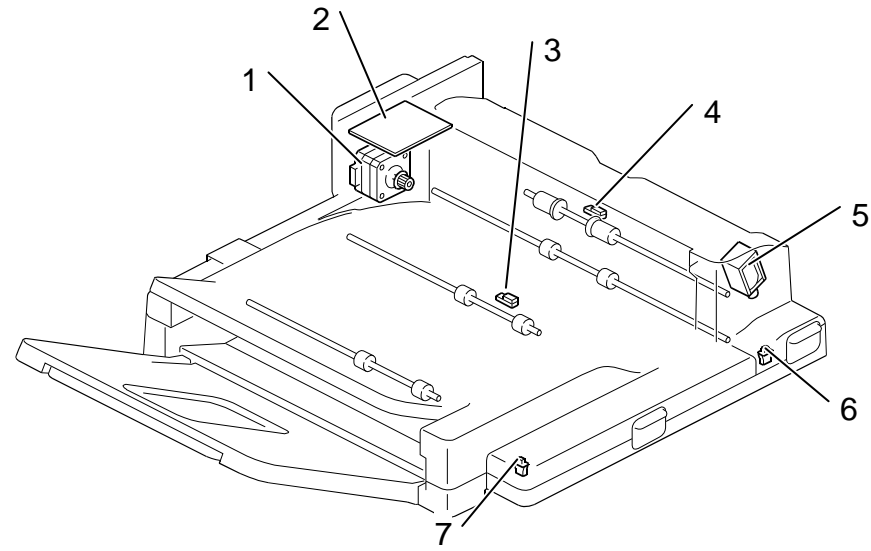
Motors			
Symbol	Index No.	Description	PtoP
M1	1	Shift Motor	C8
Sensors			
Symbol	Index No.	Description	PtoP
S1	2	Position Sensor	C1
PCB			
Symbol	Index No.	Description	PtoP
PCB1	3	Control Board	D4

# D725 POINT TO POINT DIAGRAM





# D725 ELECTRICAL COMPONENT LAYOUT

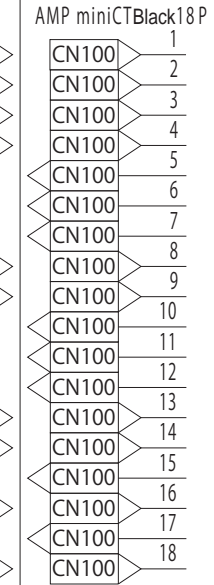
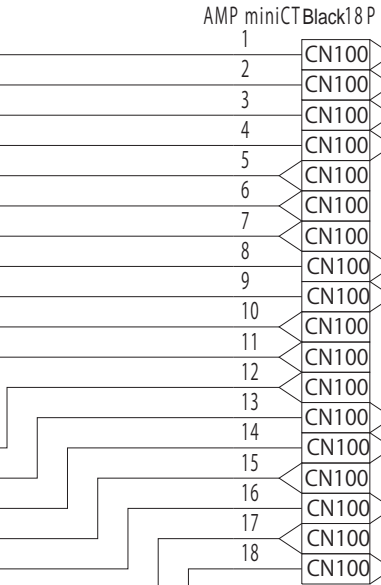
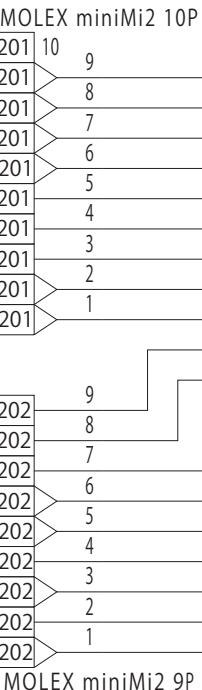
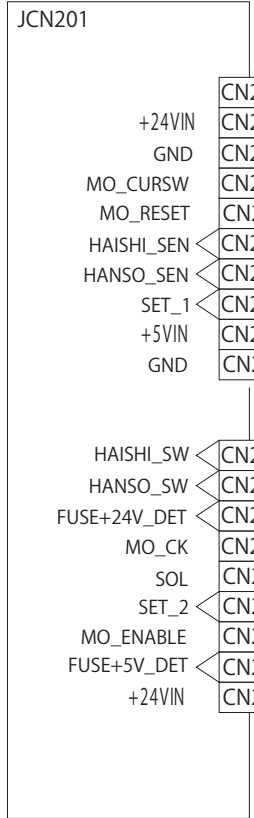


d7250101

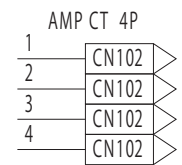
Motors			
Symbol	Index No.	Description	PtoP
M1	1	Drive Motor	B6
Sensors			
Symbol	Index No.	Description	PtoP
S1	4	Upper Paper Output Sensor	C7
S2	3	Left Paper Output Sensor	E7
Solenoids			
Symbol	Index No.	Description	PtoP
SOL1	5	Paper Separating Claw Solenoid	C7
Switches			
Symbol	Index No.	Description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

# D685 POINT TO POINT DIAGRAM

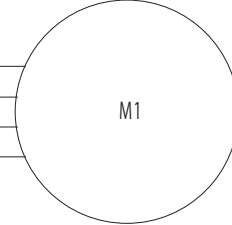
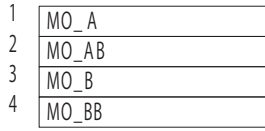
MOLEX Connector  
55949 18P



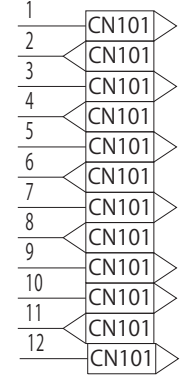
PCB



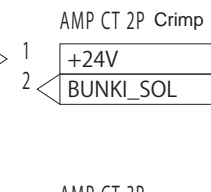
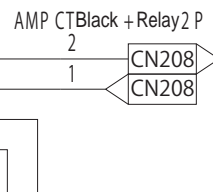
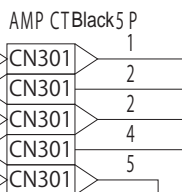
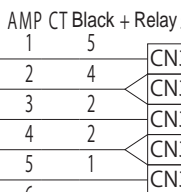
AMP CT 4P Crimp



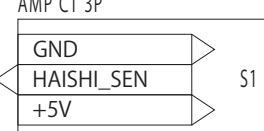
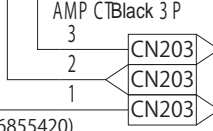
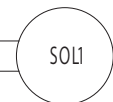
Drive Motor



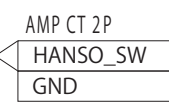
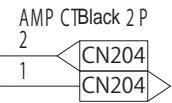
AMP miniCTBlack12P



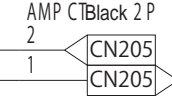
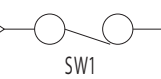
Relay Junction Gate Solenoid



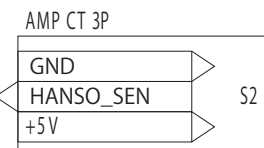
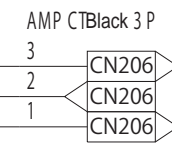
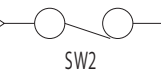
Paper Exit Sensor



Paper Exit Tray Set Switch



Paper Transport Unit Set Switch

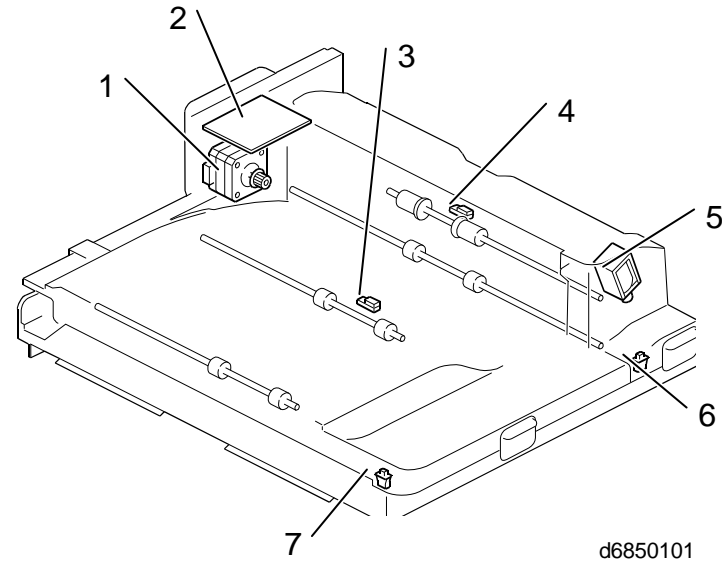


Relay Transport Sensor



(D6855410)

# D685 ELECTRICAL COMPONENT LAYOUT



Motors			
Symbol	Index No.	Description	PtoP
M1	1	Drive Motor	B6
Sensors			
Symbol	Index No.	Description	PtoP
S1	4	Paper Exit Sensor	C7
S2	3	Relay Transport Sensor	E7
Solenoids			
Symbol	Index No.	Description	PtoP
SOL1	5	Relay Junction Gate Solenoid	C7
Switches			
Symbol	Index No.	Description	PtoP
SW1	7	Paper Exit Tray Set Switch	D7
SW2	6	Paper Transport Unit Set Switch	D7
PCB			
Symbol	Index No.	Description	PtoP
PCB1	2	Controller Board	E4

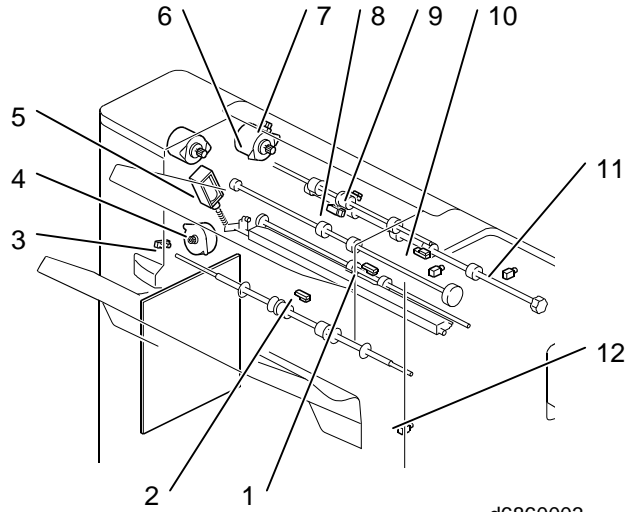




D3B8 POINT TO POINT DIAGRAM

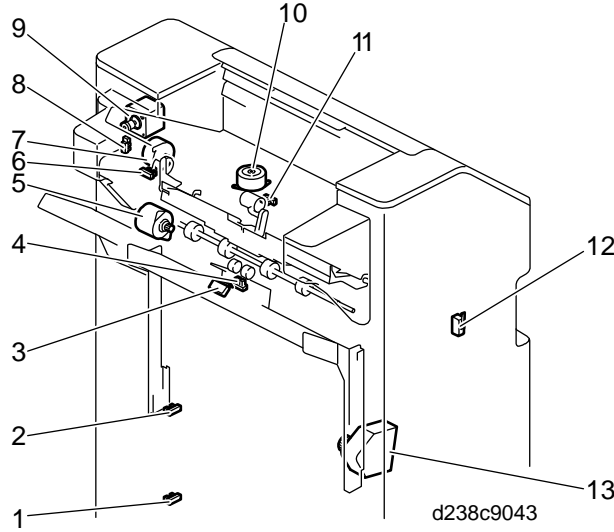


# D3B8 ELECTRICAL COMPONENT LAYOUT(1/2)



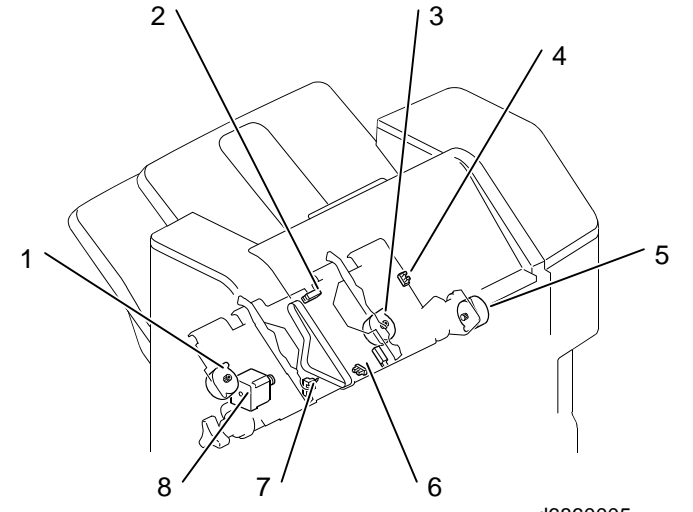
**Fig.1**

d6860003



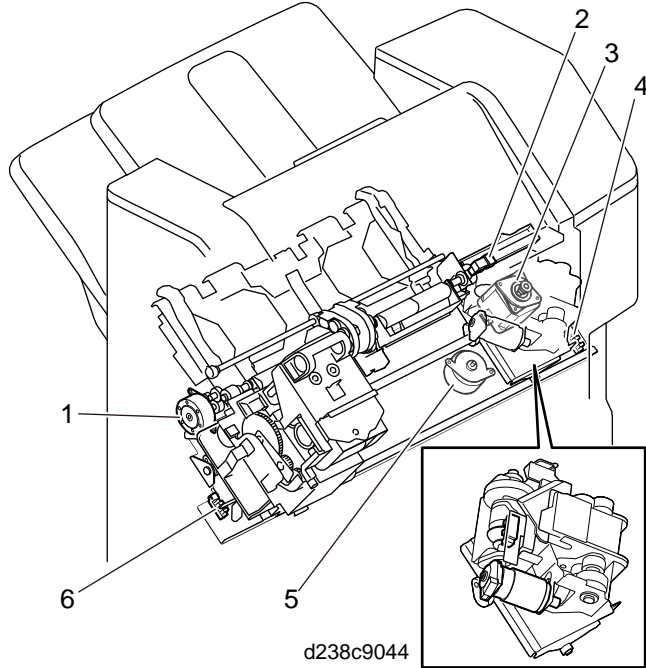
**Fig.2**

d238c9043



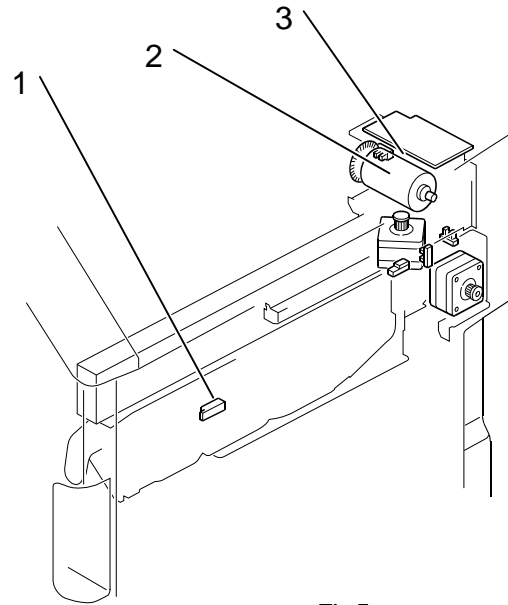
**Fig.3**

d6860005



**Fig.4**

d238c9044



**Fig.5**

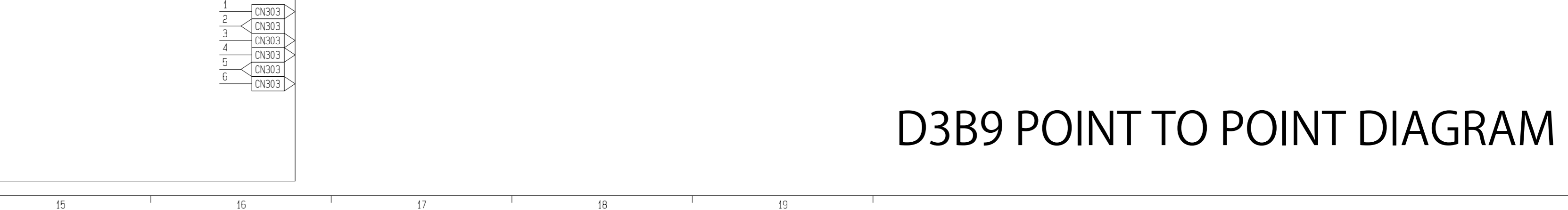
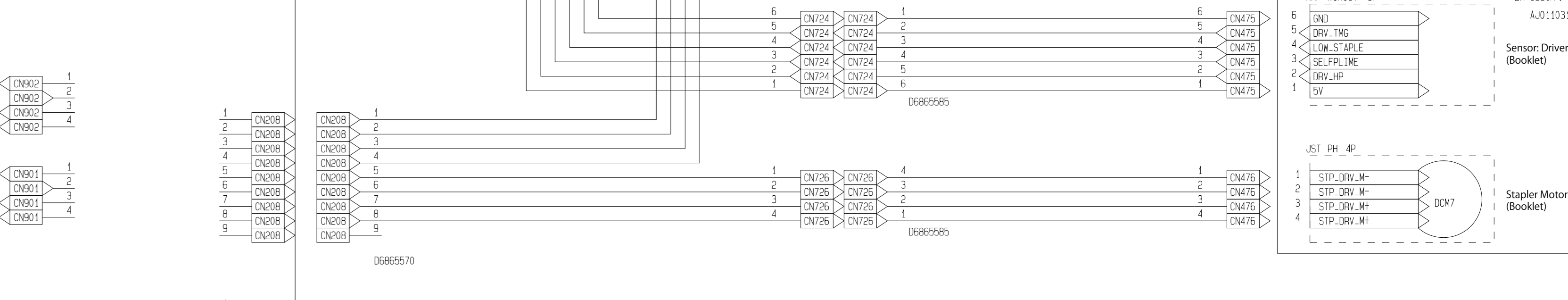
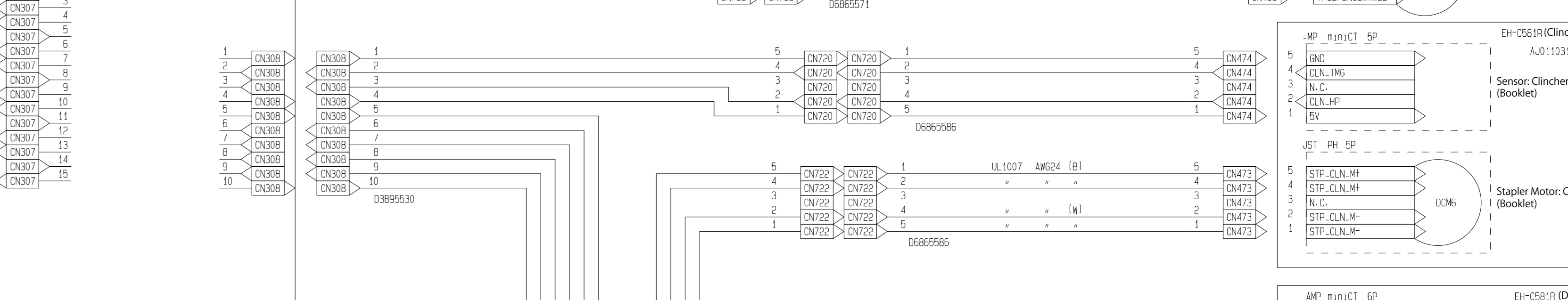
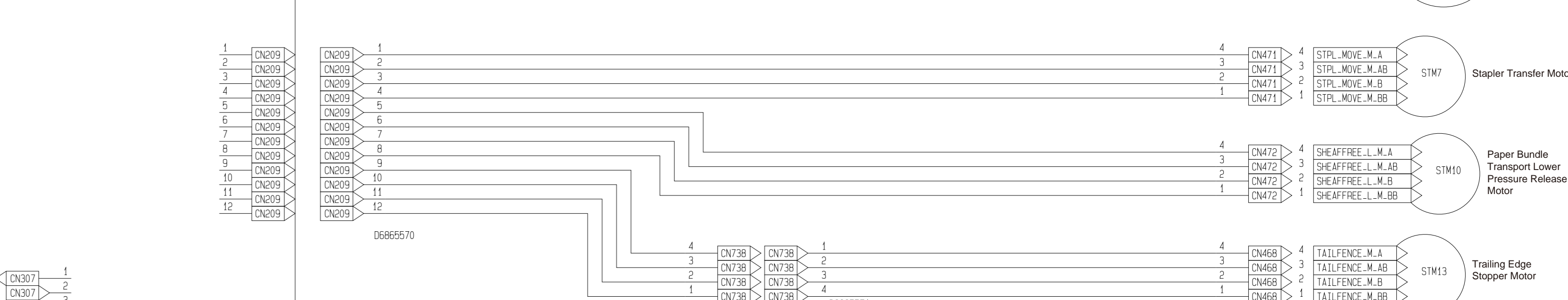
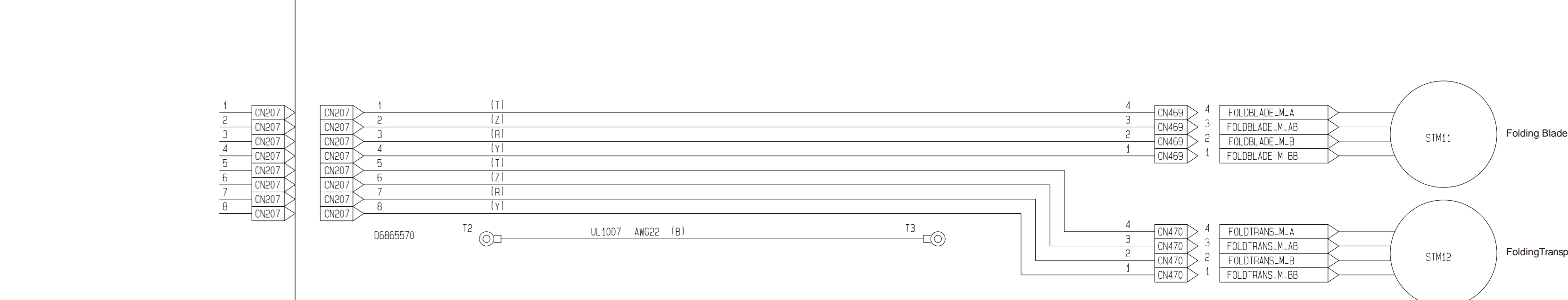
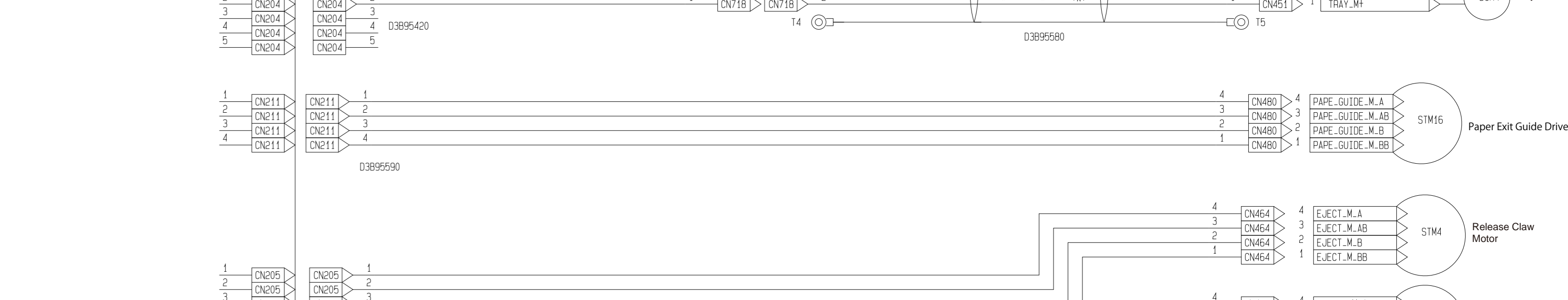
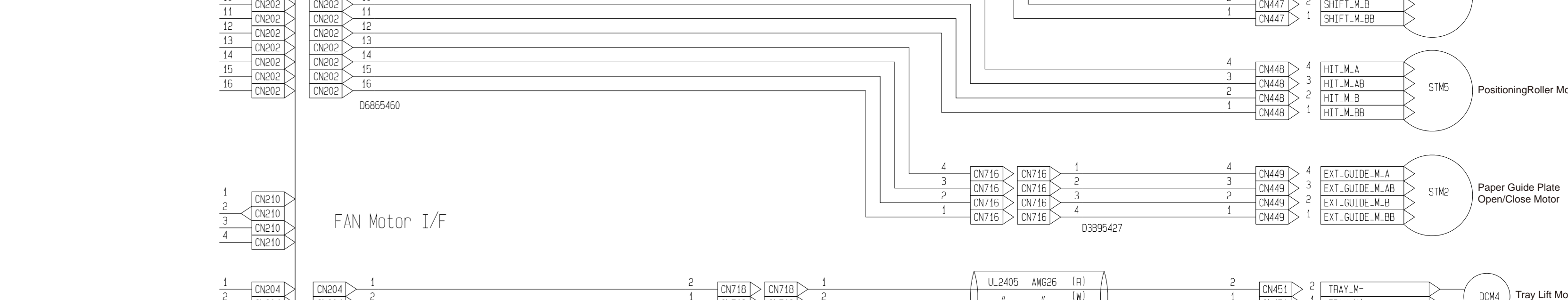
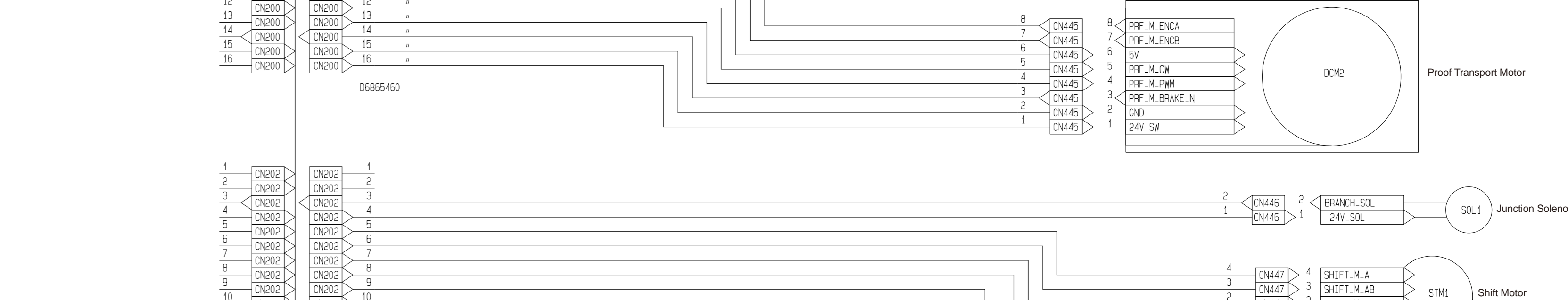
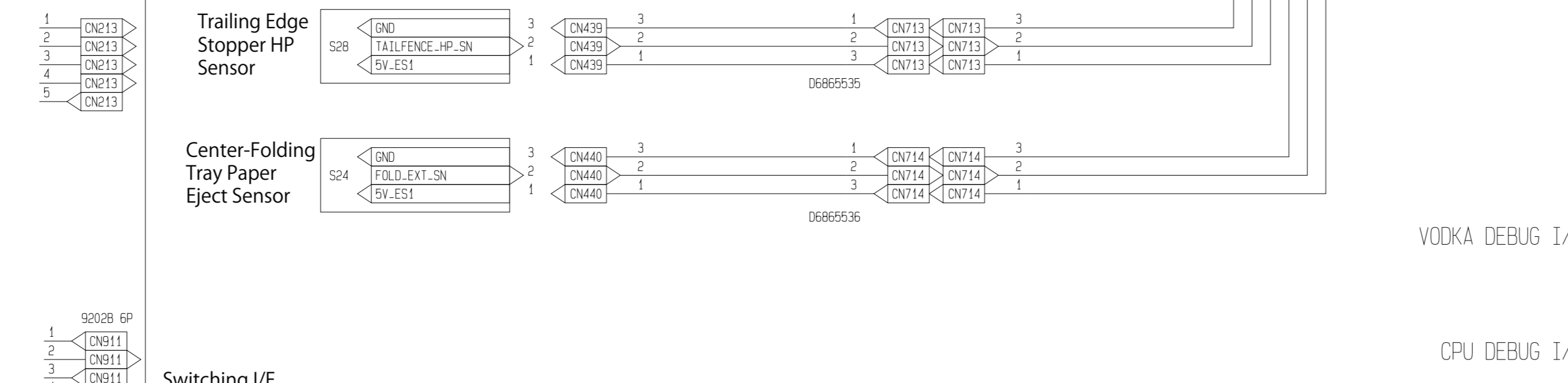
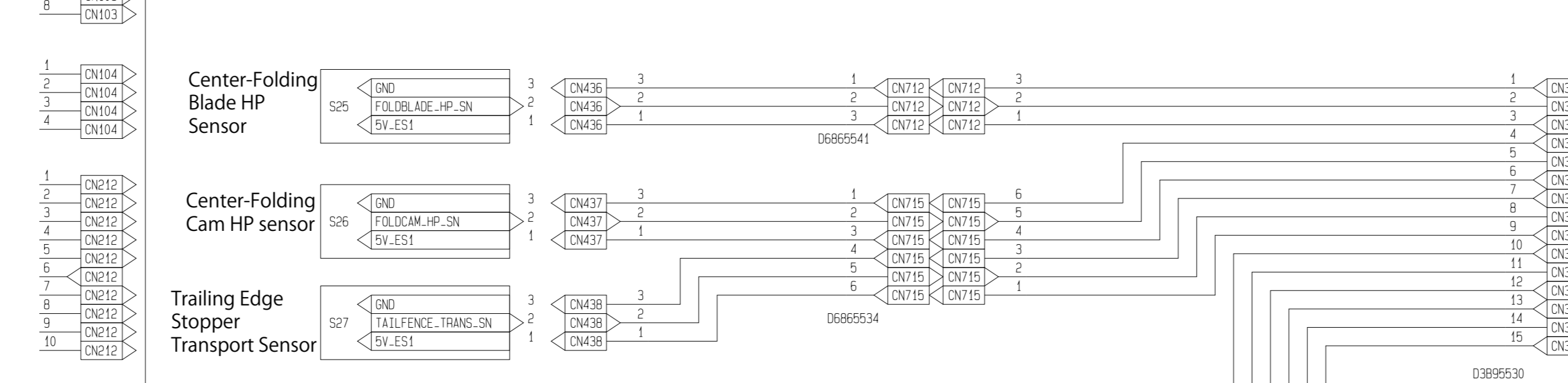
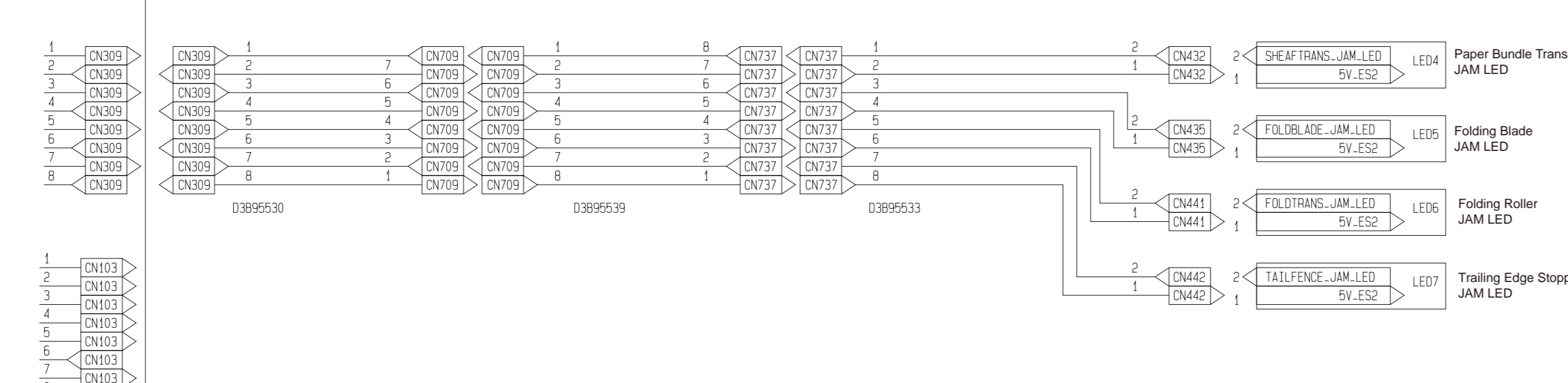
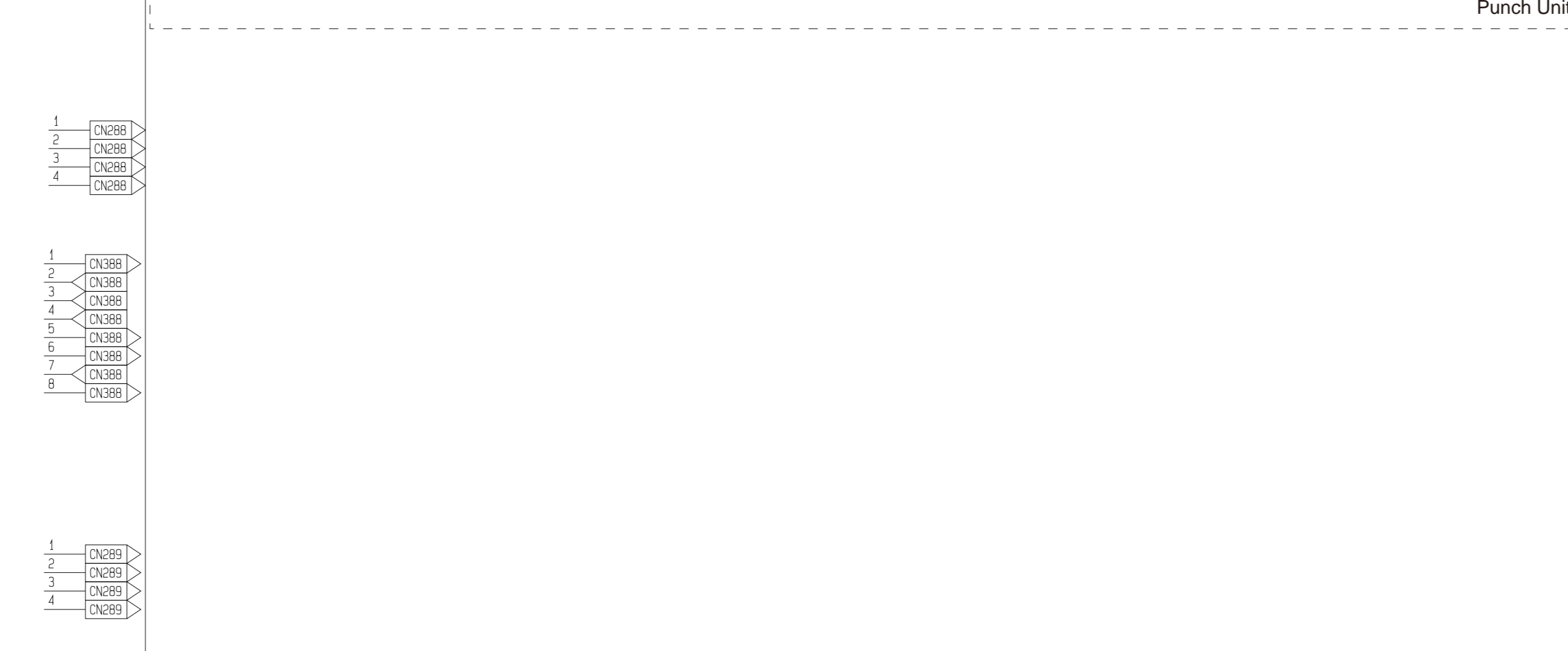
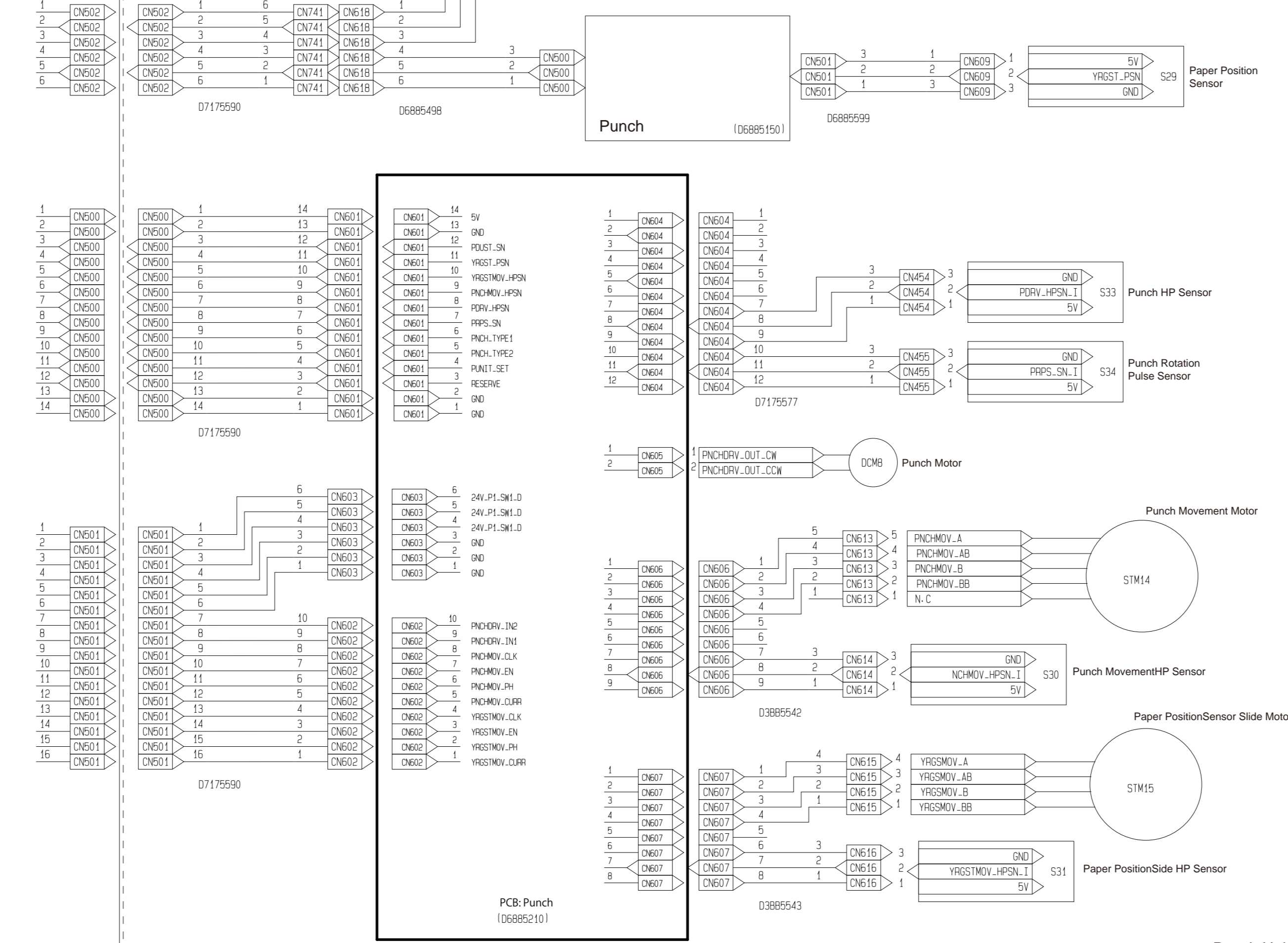
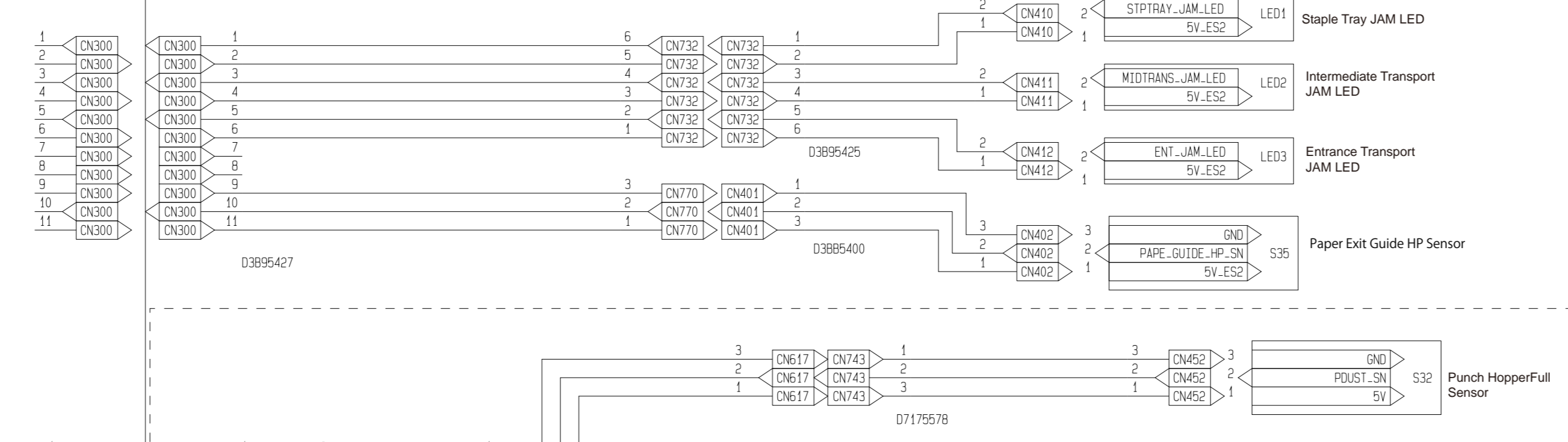
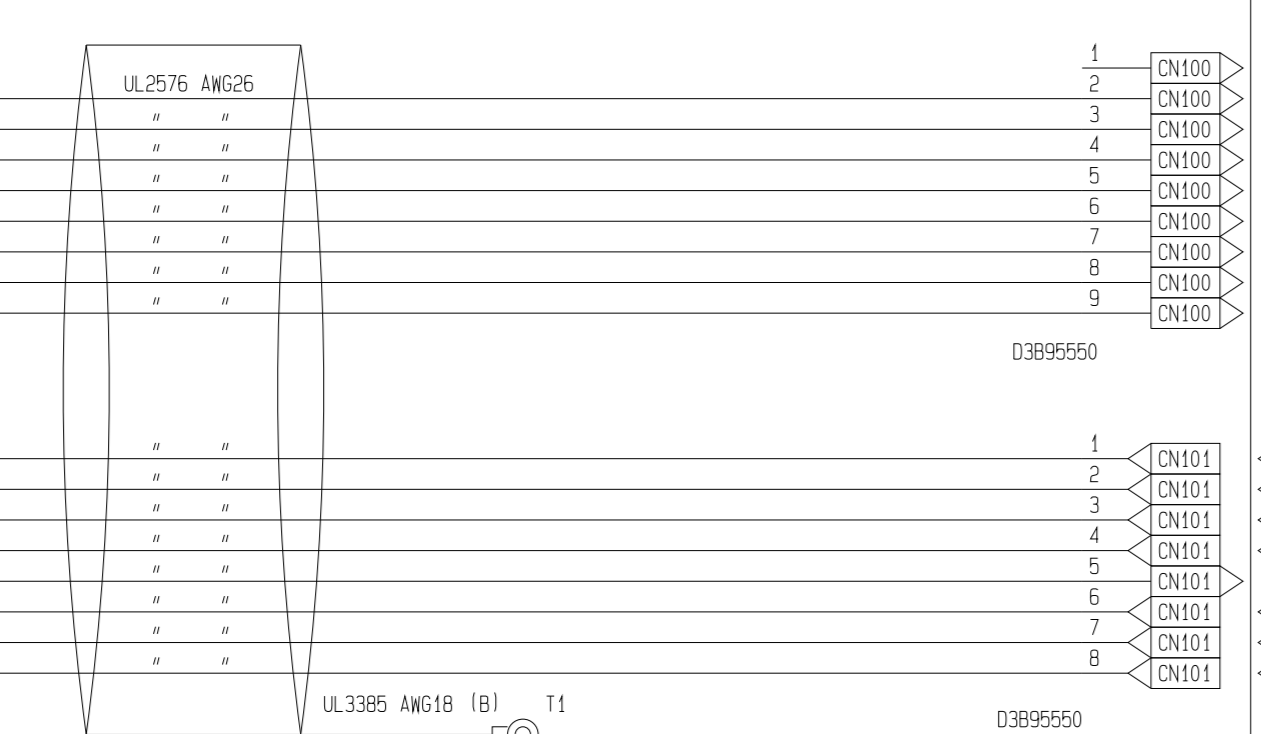
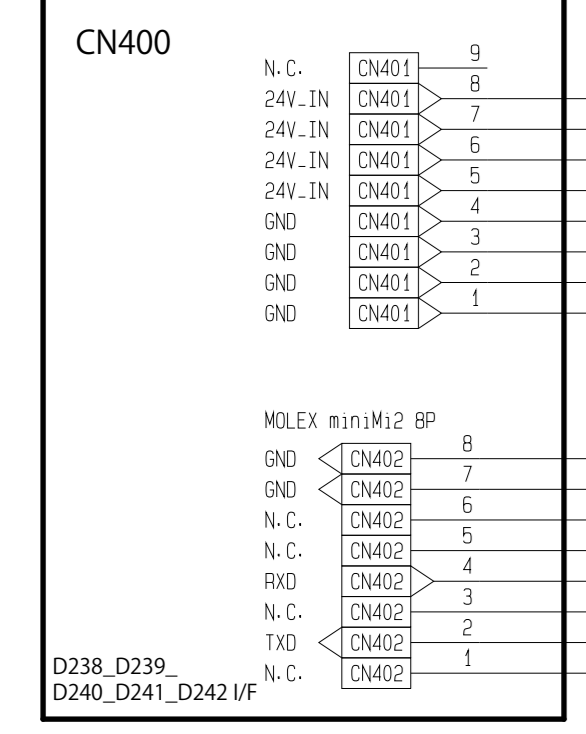
d6860008

# D3B8 ELECTRICAL COMPONENT LAYOUT(2/2)

Symbol	Index No.	Description	P to P
Sensors			
S1	Fig2-1	Shift Tray Lower Limit Sensor (Upper)	J1
S2	-	Stapler Transfer HP Sensor (Edge)	I13
S3	Fig.4-2	Paper Guide HP Sensor	N1
S5	Fig.4-6	Stapler HP Sensor	N1
S6	Fig.4-4	Stapeless Stapler HP Sensor	M1
S9	Fig.3-4	Staple Tray Paper Detection Sensor	K1
S10	Fig.3-5	Release Claw HP Sensor	J1
S11	Fig.3-3	Jogger HP Sensor	J1
S12	Fig2-2	Shift Tray Lower Limit Sensor (Lower)	I1
S13	Fig2-4	Shift Tray Paper Surface Sensor	I1
S14	Fig2-6	Positioning Roller HP Sensor	H1
S15	Fig.3-2	Shift Tray Paper Eject Sensor	K1
S16	Fig.1-7	Upper Cover Open/Close Sensor	G1
S17	Fig.1-3	Shift HP Sensor	G1
S18	Fig.1-10	Entrance Sensor	H1
S19	Fig.1-1	Intermediate Transport Sensor R	F23
S20	Fig.1-2	Intermediate Transport Sensor L	E1
S21	Fig.1-8	Proof Tray Full Sensor	E1
S22	Fig.1-9	Proof Tray Paper Eject Sensor	D1
S23	Fig2-11	Paper Guide Plate Open/Close HP Sensor	F23
S29	-	Paper Position Sensor	C14
S30	-	Punch Movement HP Sensor	F13
S31	-	Paper Position Side HP Sensor	G13
S32	Fig.5-1	Punch Hopper Full Sensor	B14
S33	Fig.5-3	Punch HP Sensor	D14
S34	-	Punch Rotation Pulse Sensor	D14
S35	Fig2-8	Paper Guide HP Sensor	B13

Symbol	Index No.	Description	P to P
Motors			
STM1	Fig.1-4	Shift Motor	D23
STM2	Fig2-10	Paper Guide Plate Open/Close Motor	E23
STM3	Fig.3-1	Jogger Motor	H23
STM4	Fig.3-4	Release Claw Motor	G23
STM5	Fig2-7	Positioning Roller Motor	E23
STM6	-	Stapler (590) Motor	K23
STM14	-	Punch Movement Motor	E14
STM15	-	Paper Position Sensor Slide Motor	G14
STM16	Fig2-9	Paper Exit Guide Drive Motor	F23
STM17	Fig.4-3	Stapler (Stapeless) Motor	L23
STM18	Fig.4-1	Paper Guide Drive Motor	L23
DCM1	Fig.1-6	Entrance Transport Motor	A23
DCM2	-	Proof Transport Motor	C23
DCM3	Fig2-5	Paper Eject Transport Motor	B23
DCM4	Fig2-13	Tray Lift Motor	F23
DCM5	Fig.4-5	Stapler Motor	H14
DCM8	Fig.5-2	Punch Motor	E12
DCM9	-	Stapeless: Booklet	N11
Switches			
SW1	Fig2-12	Open/Close Door Switch	C1
SW2	Fig2-3	Shift Tray Upper Limit Switch	D1
LEDs			
LED1	Fig.1-12	Staple Tray JAM LED	A13
LED2	-	Intermediate Transport JAM LED	A13
LED3	Fig.1-11	Entrance Transport JAM LED	A13
Solenoids			
SOL1	Fig.1-5	Junction Solenoid	D23

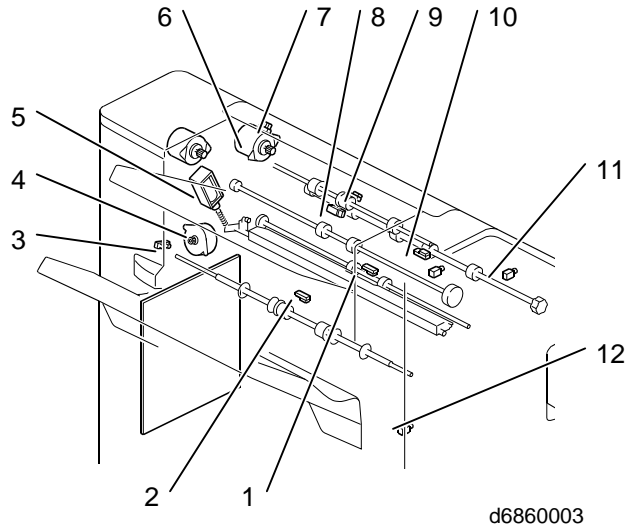




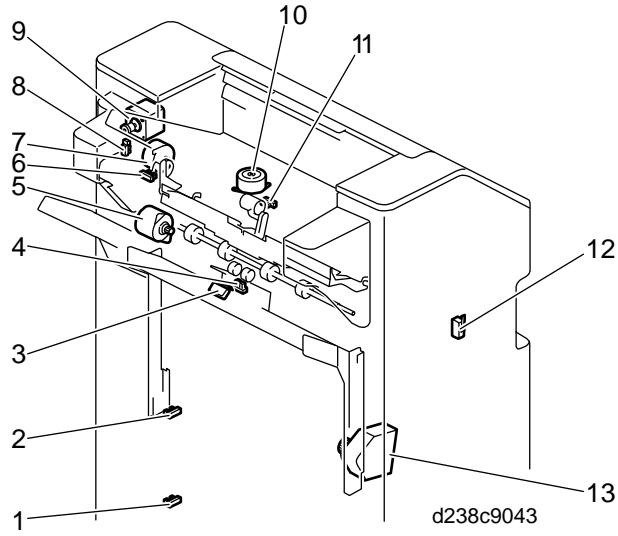
D3B9 POINT TO POINT DIAGRAM



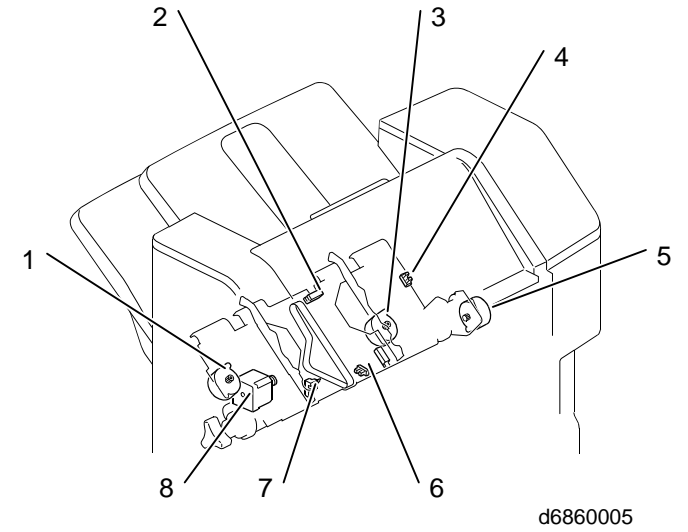
# D3B9 ELECTRICAL COMPONENT LAYOUT(1/2)



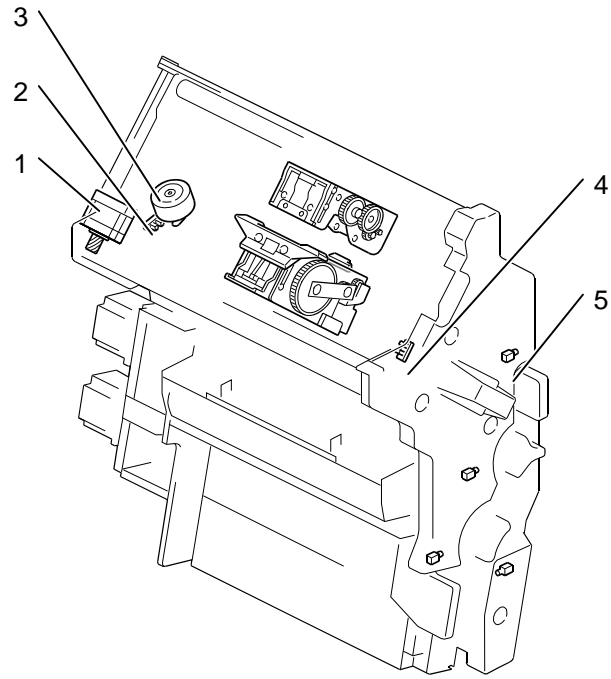
**Fig.1**



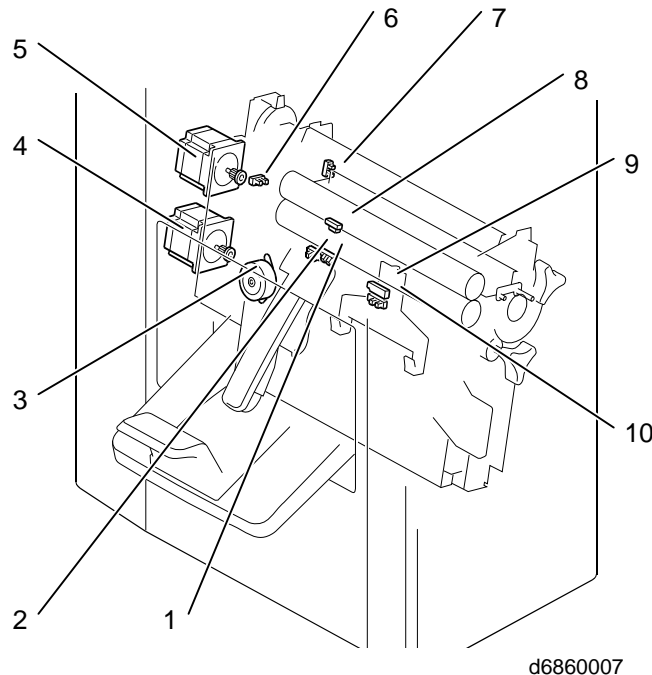
**Fig.2**



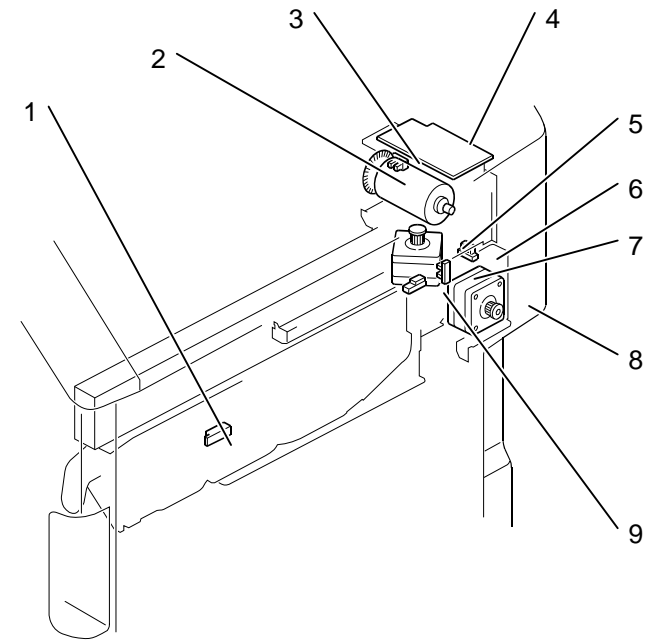
**Fig.3**



**Fig.4**



**Fig.5**



**Fig.6**

d6860006

d6860007

d6860008

d6860003

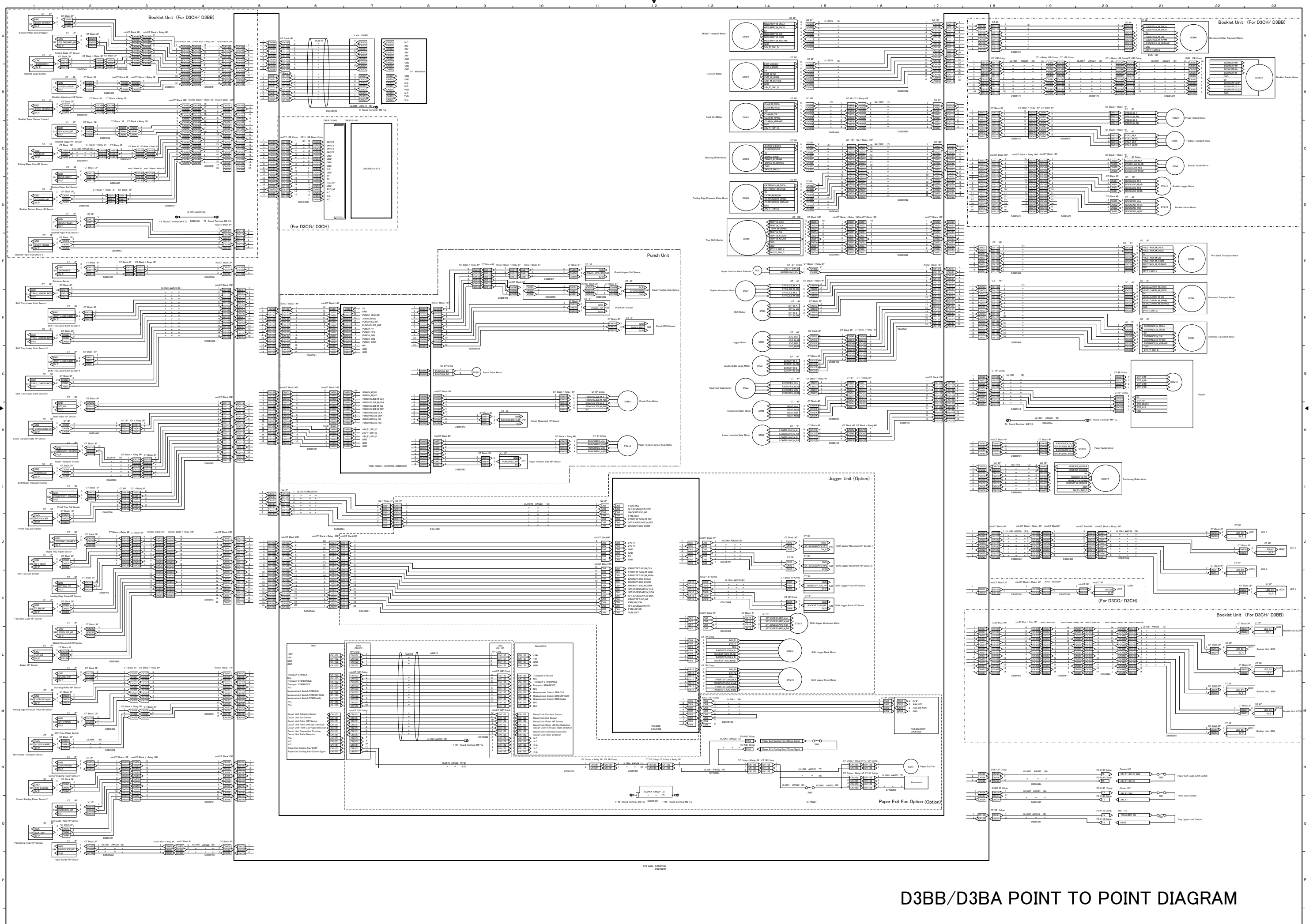
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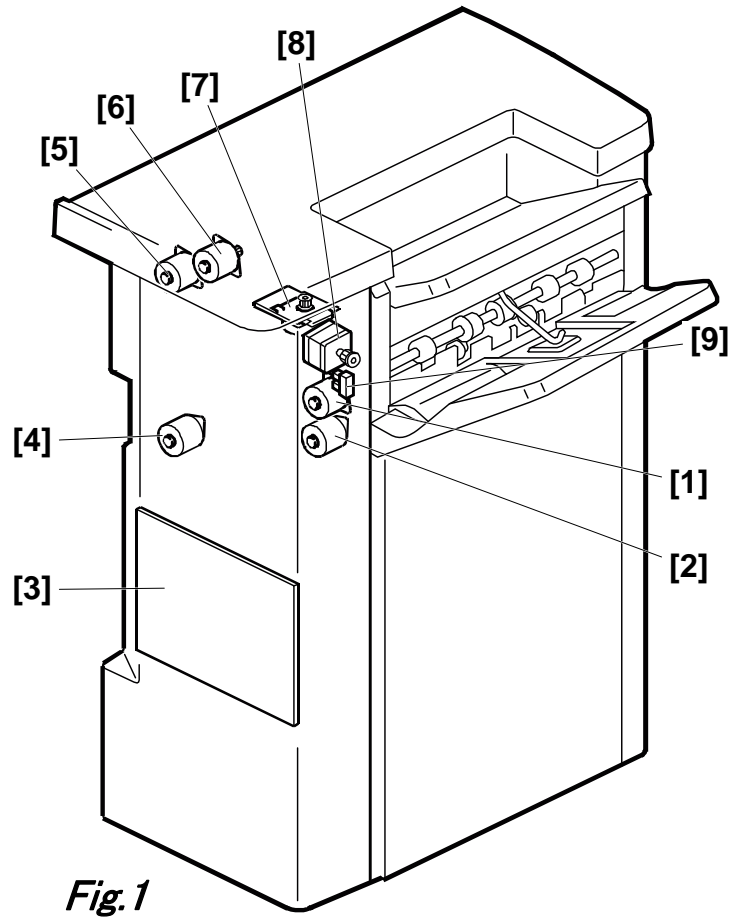
# D3B9 ELECTRICAL COMPONENT LAYOUT(2/2)

Symbol	Index No.	Description	P to P
Sensors			
S1	Fig.2-1	Shift Tray Lower Limit Sensor (Upper)	I1
S2	Fig.5-1	Center-Folding Tray Full Sensor 2	O1
S3	-	Paper Bundle Transport Sensor	N1
S4	Fig.5-2	Center-Folding Tray Full Sensor 1	O1
S5	Fig.4-2	Paper Bundle Transport Lower Pressure Release HP Sensor	N1
S6	-	Stapler Retreat Sensor	M1
S7	Fig.4-4	Stapler Transfer HP Sensor	M1
S8	-	Paper Bundle Transport Upper Pressure Release HP Sensor	L1
S9	Fig.3-6	Staple Tray Paper Detection Sensor	K1
S10	Fig.3-7	Release Claw HP Sensor	J1
S11	Fig.3-4	Jogger HP Sensor	J1
S12	Fig.2-2	Shift Tray Lower Limit Sensor (Lower)	I1
S13	Fig.2-4	Shift Tray Paper Surface Sensor	I1
S14	Fig.2-6	Positioning Roller HP Sensor	H1
S15	Fig.3-2	Shift Tray Paper Eject Sensor	K1
S16	Fig.1-7	Upper Cover Open/Close Sensor	G1
S17	Fig.1-3	Shift HP Sensor	G1
S18	Fig.1-10	Entrance Sensor	H1
S19	Fig.1-1	Intermediate Transport Sensor R	F1
S20	Fig.1-2	Intermediate Transport Sensor L	E1
S21	Fig.1-8	Proof Tray Full Sensor	E1
S22	Fig.1-9	Proof Tray Paper Eject Sensor	D1
S23	Fig.2-11	Paper Guide Plate Open/Close HP Sensor	F1
S24	Fig.5-8	Center-Folding Tray Paper Eject Sensor	N1
S25	Fig.5-7	Center-Folding Blade HP Sensor	M9
S26	Fig.5-6	Center-Folding Cam HP sensor	M9
S27	Fig.5-9	Trailing Edge Stopper Transport Sensor	M9
S28	Fig.5-10	Trailing Edge Stopper HP Sensor	N9
S29	-	Paper Position Sensor	C14
S30	-	Punch Movement HP Sensor	F13
S31	-	Paper Position Side HP Sensor	G13
S32	-	Punch Hopper Full Sensor	B14
S33	-	Punch HP Sensor	D13
S34	-	Punch Rotation Pulse Sensor	D13
S35	Fig.2-8	Paper Exit Guide HP Sensor	B13

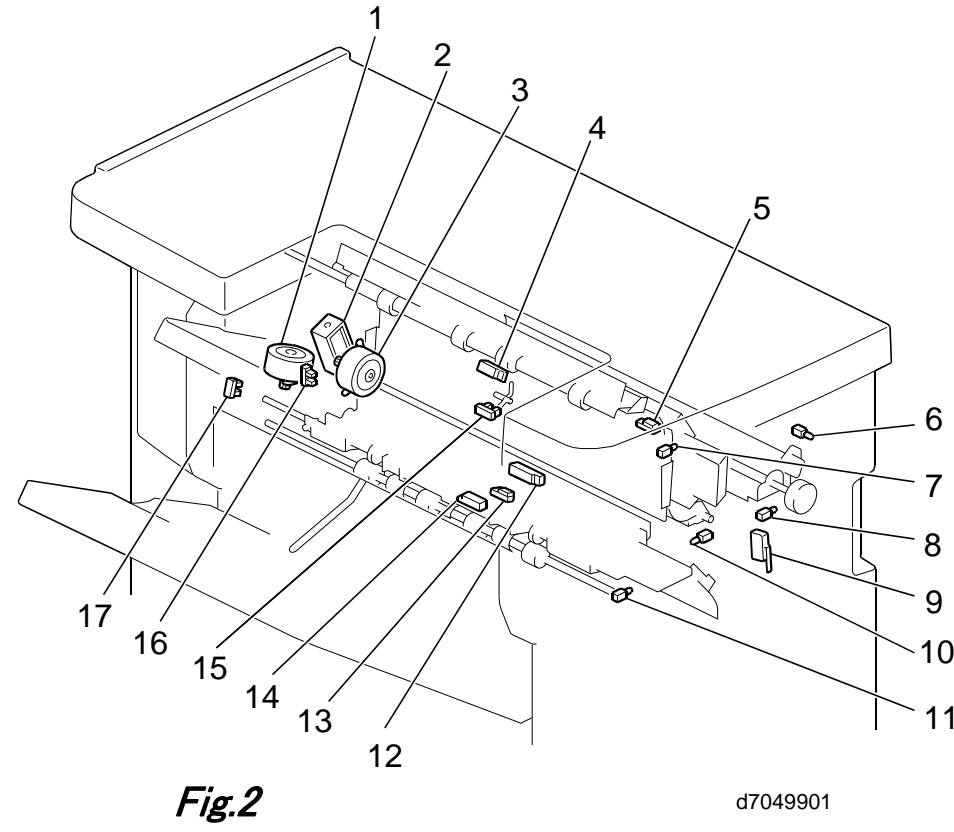
Symbol	Index No.	Description	P to P
Motors			
STM1	Fig.1-4	Shift Motor	D23
STM2	Fig.2-10	Paper Guide Plate Open/Close Motor	E23
STM3	Fig.3-1	Jogger Motor	H23
STM4	Fig.3-8	Release Claw Motor	G23
STM5	Fig.2-7	Positioning Roller Motor	E23
STM7	Fig.4-1	Stapler Transfer Motor (Mid.)	K23
STM8	Fig.3-5	Paper Bundle Transport Upper Motor	I23
STM9	Fig.3-3	Paper Bundle Transport Upper Pressure Release Motor	H23
STM10	Fig.4-3	Paper Bundle Transport Lower Pressure Release Motor	L23
STM11	Fig.5-4	Folding Blade Motor	J23
STM12	Fig.5-5	Folding Transport Motor	K23
STM13	Fig.5-3	Trailing Edge Stopper Motor	L23
STM14	-	Punch Movement Motor	E14
STM15	-	Paper Position Sensor Slide Motor	F14
STM16	Fig.2-9	Paper Exit Guide Drive Motor	F23
DCM1	Fig.1-6	Entrance Transport Motor	A23
DCM2	-	Proof Transport Motor	C23
DCM3	Fig.2-5	Paper Eject Transport Motor	B23
DCM4	Fig.2-13	Tray Lift Motor	F23
DCM6	-	Stapler Motor: Clincher(Booklet)	N23
DCM7	-	Stapler Driver(Booklet)	O23
DCM8	-	Punch Motor	E12
Switches			
SW1	Fig.2-12	Open/Close Door Switch	C1
SW2	Fig.2-3	Shift Tray Upper Limit Switch	D1
LEDs			
LED1	Fig.1-12	Staple Tray JAM LED	A13
LED2	-	Intermediate Transport JAM LED	A13
LED3	Fig.1-11	Entrance Transport JAM LED	A13
LED4	Fig.4-5	Paper Bundle Transport JAM LED	K14
LED5	-	Folding Blade JAM LED	K14
LED6	-	Folding Roller JAM LED	K14
LED7	-	Trailing Edge Stopper JAM LED	L14
Solenoids			
SOL1	Fig.1-5	Junction Solenoid	D23



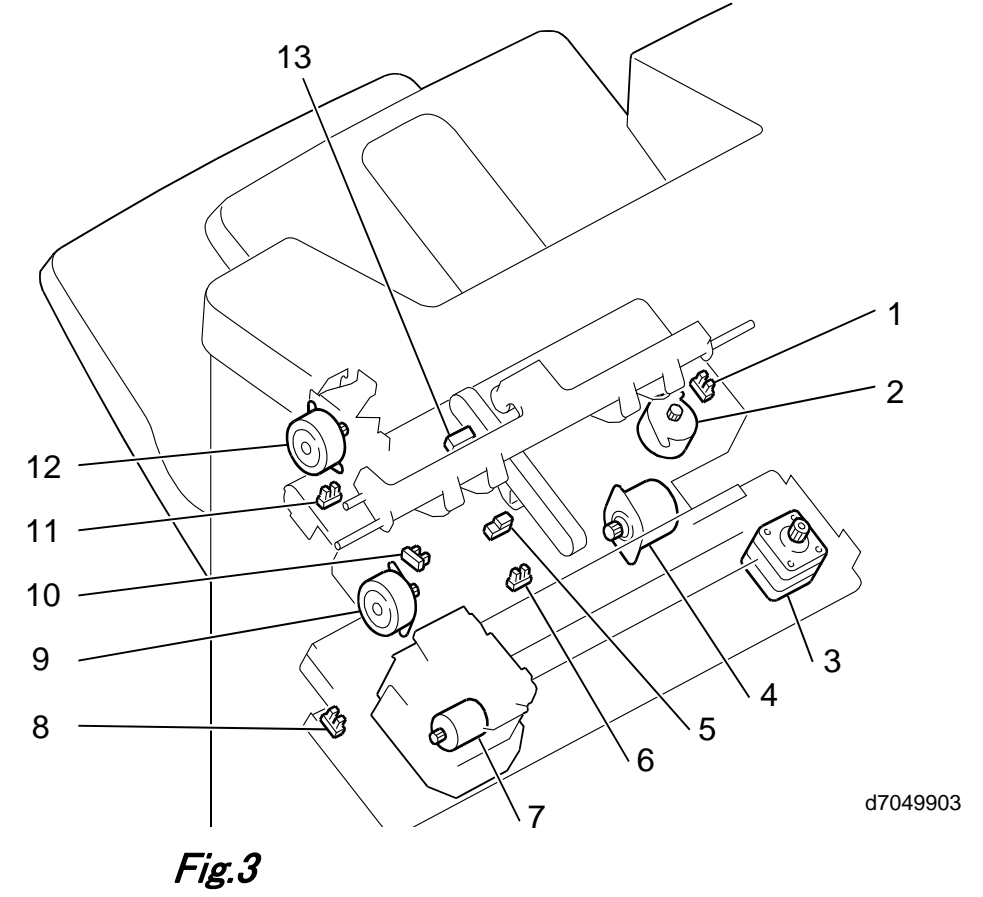
# D3BB/ D3BA ELECTRICAL COMPONENT LAYOUT(1/2)



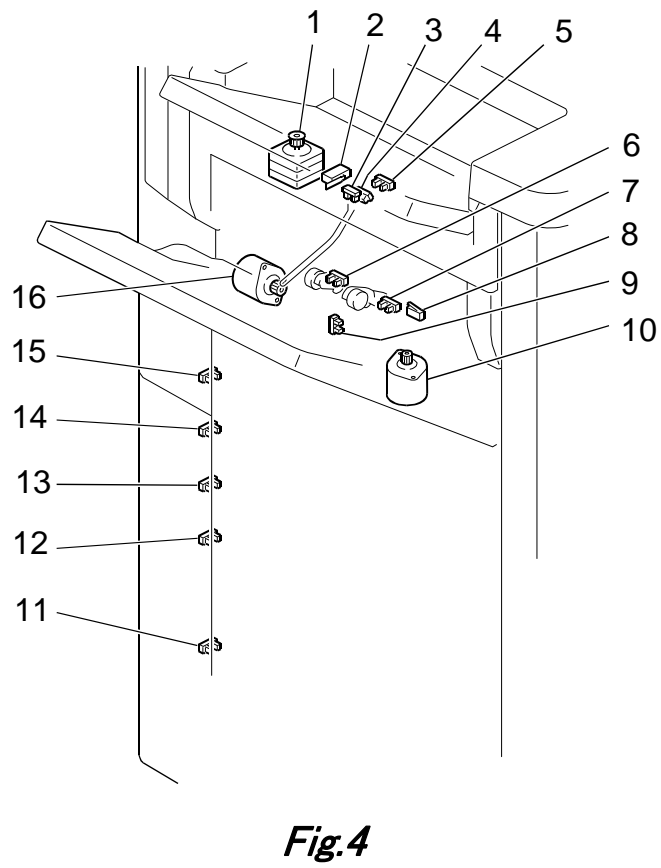
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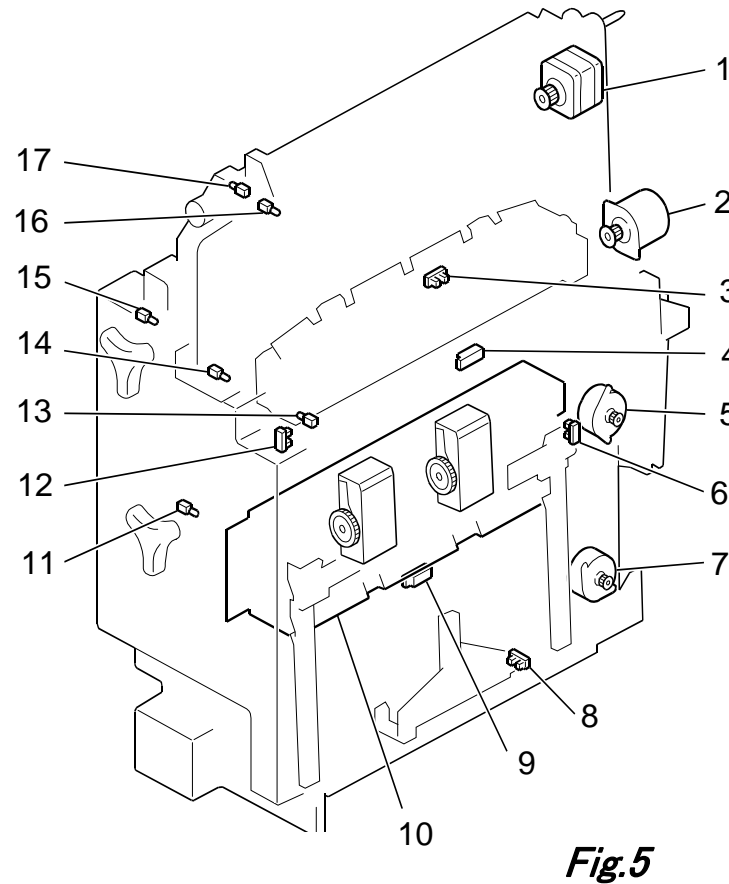
d7049901



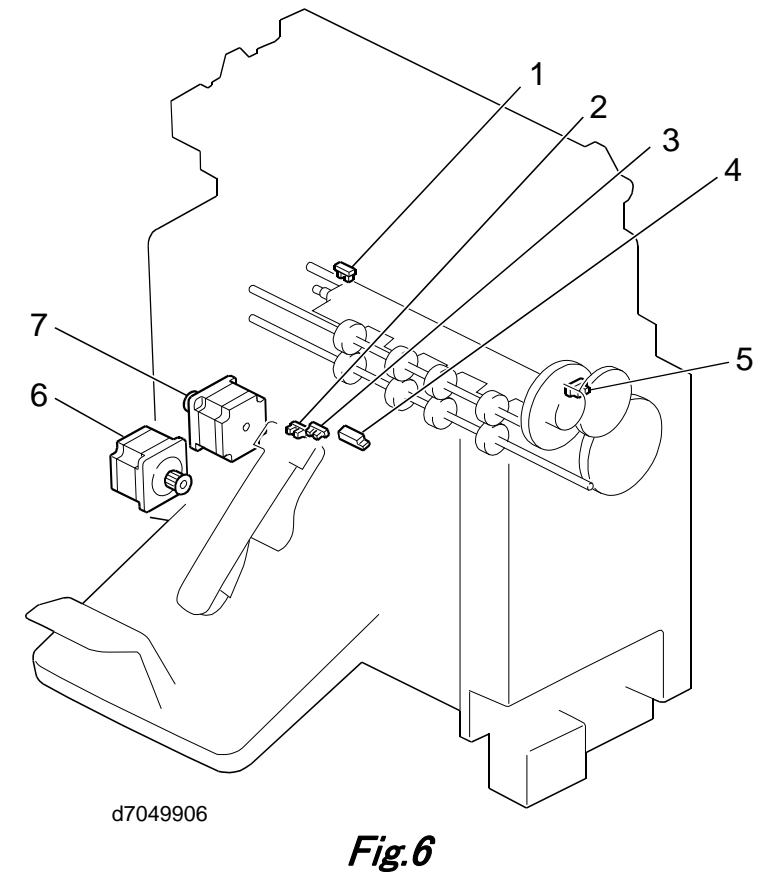
d7049903



d7049904



d7049905



d7049906

# D3BB/ D3BA ELECTRICAL COMPONENT LAYOUT(2/2)

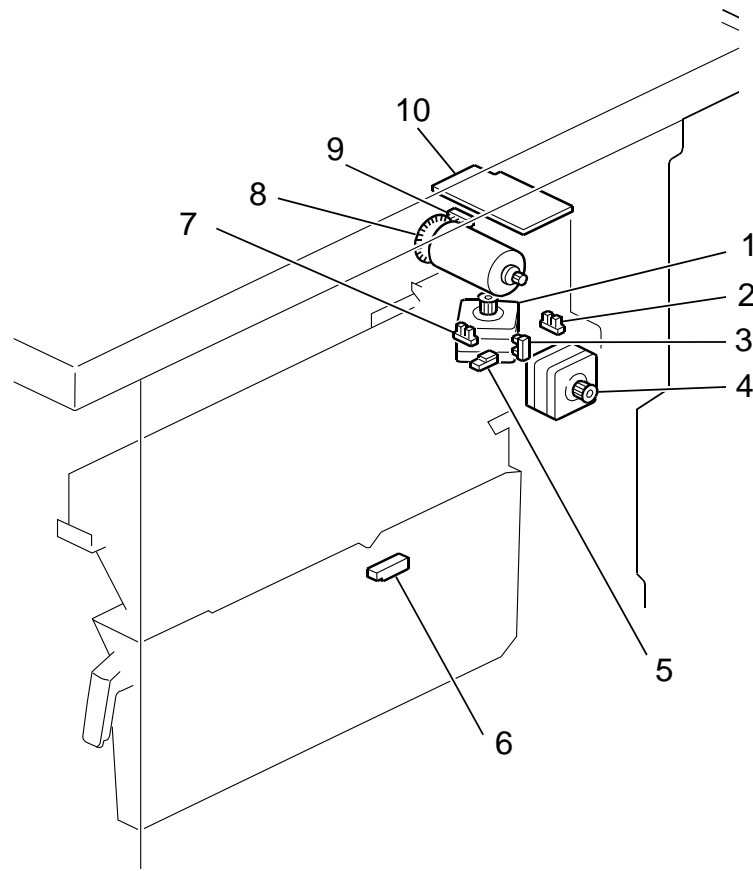


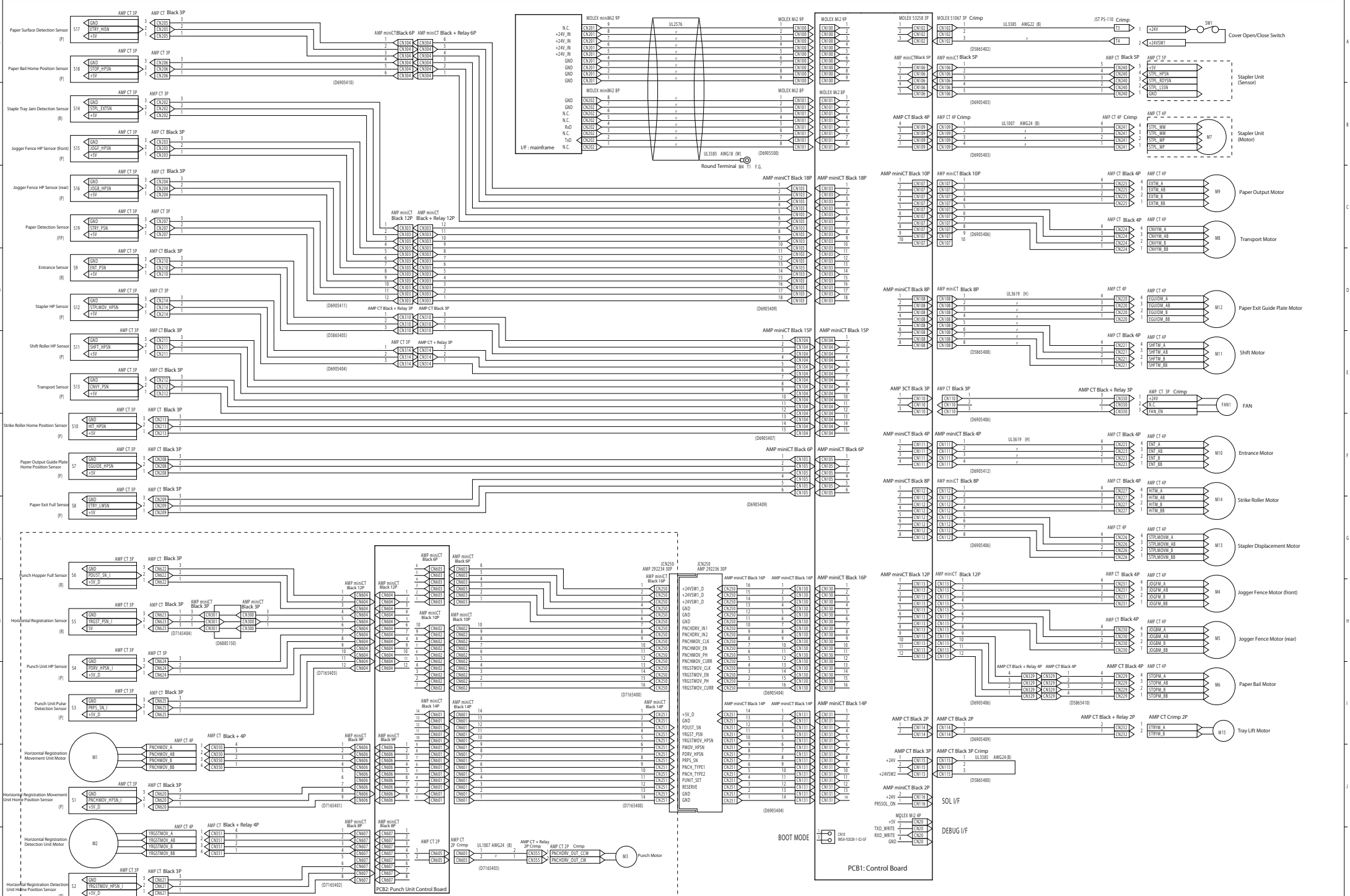
Fig.7

d7049907

Symbol	Index No.	Description	P to P
<b>Sensors</b>			
S1	Fig.6-1	Folding Blade HP Sensor	A1
S2	Fig.5-4	Booklet Paper Sensor(Upper)	A1
S3	Fig.5-3	Booklet Adjustment HP Senso	B1
S4	Fig.5-12	Booklet Guide Sensor	B1
S5	Fig.5-8	Booklet Bottom Fence HP Sensor	D1
S6	Fig.6-4	Bottom Paper Exit Sensor	D1
S7	Fig.6-3	Booklet Paper Full Sensor 1	D1
S8	Fig.6-2	Booklet Paper Full Sensor 2	E1
S9	Fig.6-5	Folding Blade Cam HP Sensor	C1
S10	Fig.5-6	Booklet Jogger HP Sensor	C1
S11	Fig.5-9	Booklet Paper Sensor (Lower)	B1
S12	Fig.3-6	Feed Out Guide HP Sensor	K1
S13	Fig.2-12	Horizonatal Transport Sensor	N1
S14	Fig.2-13	Switchback Transport Sensor	I1
S15	Fig.2-14	Paper Transport Sensor	H1
S16	Fig.4-15	Shift Tray Lower Limit Sensor 1	F1
S17	Fig.2-5	Entrance Sensor	E1
S18	Fig.2-16	Lower Junction Gate HP Sensor	H1
S19	Fig.2-17	Shift Roller HP Sensor	H1
S20	Fig.2-15	Proof Tray Exit Sensor	J1
S21	Fig.2-4	Proof Tray Full Sensor	I1
S22	Fig.3-13	Shift Tray Exit Sensor	J1
S23	Fig.3-8	Stapler Movement HP Sensor	L1
S24	Fig.4-6	Trailing Edge Pressure Plate HP Sensor	M1
S25	Fig.3-1	Jogger HP Sensor	L1
S26	Fig.4-3	Corner Stapling Paper Sensor 1	N1
S27	Fig.4-4	Corner Stapling Paper Sensor 2	N1
S28	Fig.3-11	Positioning Roller HP Sensor	O1
S29	Fig.4-12	Shift Tray Lower Limit Sensor 2	F1
S30	Fig.4-13	Shift Tray Lower Limit Sensor 3	F1
S31	Fig.3-5	Staple Tray Paper Sensor	J1
S32	Fig.4-9	Stacking Roller HP Sensor	L1
S33	Fig.3-10	Leading Edge Guide HP Sensor	K1
S34	Fig.4-5	Exit Guide Plate HP Sensor	O1
S35	Fig.4-7	Shift Tray Paper Sensor	M1
S36	Fig.4-12	Shift Tray Lower Limit Sensor 4	G1
S37	Fig.4-11	Shift Tray Lower Limit Sensor 5	G1
S38	Fig.7-7	Punch HP Sensor	F11
S39	Fig.7-9	Punch RPS Sensor	F12
S40	Fig.7-2	Punch Movement HP Sensor	H10
S41	Fig.7-3	Paper Position Side HP Sensor	I10
S42	Fig.7-6	Punch Hopper Full Sensor	E11
S43	Fig.7-5	Paper Position Side Sensor	E12
S44	Fig.1-9	Paper Guide HP Sensor	O1
S45	-	Shift Jogger Movement HP Sensor 1	J15
S46	-	Shift Jogger Movement HP Sensor 2	J15
S47	-	Shift Jogger Front HP Sensor	K15
S48	-	Shift Jogger Back HP Sensor	K15

Symbol	Index No.	Description	P to P
<b>Motors</b>			
STM1	Fig.3-2	Jogger Motor	G14
STM2	Fig.2-3	Lower Junction Gate Motor	H14
STM3	Fig.2-1	Shift Motor	F14
STM4	Fig.4-1	Paper Exit Gate Motor	G14
STM5	Fig.3-12	Positioning Roller Motor	H14
STM6	Fig.3-9	Leading Edge Guide Motor	G14
STM7	Fig.3-3	Stapler Movement Motor	F14
STM8	Fig.5-1	Booklet Guide Motor	C21
STM9	Fig.6-6	Folding Transport Moto	C21
STM10	Fig.6-7	Press Folding Motor	B21
STM11	Fig.5-5	Booklet Jogger Motor	D21
STM12	Fig.5-7	Booklet Fence Motor	D21
STM13	Fig.7-8	Punch Drive Motor	G12
STM14	Fig.7-4	Paper Position Sensor Side Motor	H12
STM15	-	Shift Jogger Front Motor	L14
STM16	-	Shift Jogger Back Motor	L14
STM17	-	Shift Jogger Movement Motor	K15
STM18	Fig.1-8	Paper Guide Motor	H20
DCM1	Fig.1-5	Entrance Transport Motor	F22
DCM2	Fig.1-6	Horizontal Transport Motor	F22
DCM3	Fig.1-2	Middle Transport Motor	A14
DCM4	Fig.1-1	Tray Exit Motor	B14
DCM5	Fig.1-4	Pre Stack Transport Motor	E22
DCM6	Fig.4-10	Stacking Roller Motor	C14
DCM7	Fig.3-4	Feed Out Motor	B14
DCM8	Fig.4-16	Trailing Edge Pressure Plate Motor	D14
DCM9	Fig.1-7	Tray Shift Motor	D14
DCM10	Fig.3-7	Stapler	G21
DCM11	Fig.5-2	Movement Roller Transport Motor	A22
DCM12	Fig.5-10	Booklet Stapler Motor	B23
DCM13	Fig.7-1	Punch Drive Motor	G9
DCM14	Fig.3-12	Positioning Roller Motor	I20
<b>Switches</b>			
SW1	Fig.2-9	Front Door Switch	N21
SW2	Fig.4-2	Paper Exit Guide Limit Switch	N21
SW3	Fig.4-8	Tray Upper Limit Switch	O21
<b>LEDs</b>			
LED1	Fig.2-7	LED1	J23
LED2	Fig.2-11	LED2	J23
LED3	Fig.2-10	LED3	J23
LED4	Fig.2-8	LED4	K23
LED5	Fig.2-6	LED5	K20
LED6	Fig.5-11	Booklet Unit LED1	K23
LED7	Fig.5-13	Booklet Unit LED2	L23
LED8	Fig.5-14	Booklet Unit LED3	L23
LED9	Fig.5-15	Booklet Unit LED4	M23
LED10	Fig.5-16	Booklet Unit LED5	M23
LED11	Fig.5-17	Booklet Unit LED6	M23
<b>Solenoids</b>			
SOL1	Fig.2-2	Upper Junction Gate Solenoid	E14
<b>FAN</b>			
FAN1	-	Paper Exit Fan	N17
<b>PCBs</b>			
PCB1	Fig.1-3	Main Control Board	-
PCB2	Fig.7-10	Punch Unit Control Board	-

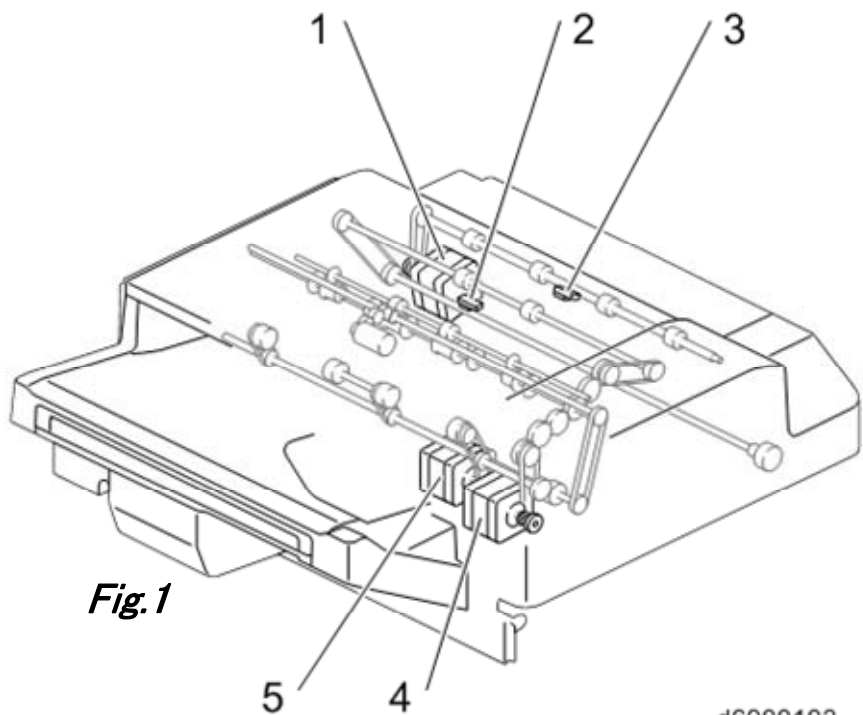




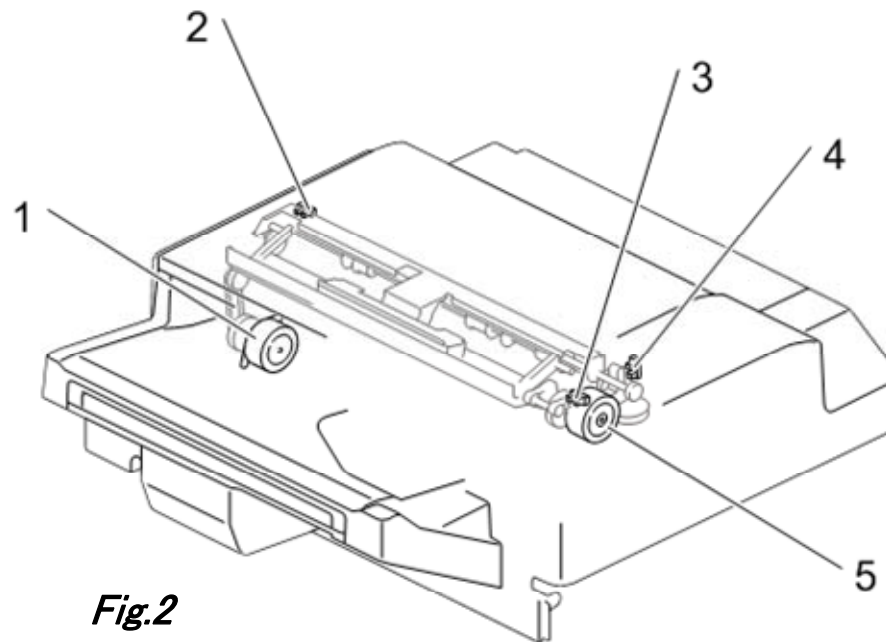
5. The Punch Unit is an option and they are D71617NA 3/2 holes, D71627EU 2/4 holes, and D71667(EU)-dholes).  
 4. Suffix is omitted.  
 3. The color of connector with no indication is the natural color.  
 2. The type of harness side connector with no indication is press-connect type.  
 (\*) 1. The UL style of electric wire with no indication is UL10275. AWG size is AWG26, and its color is (purple/M).

D690 POINT TO POINT DIAGRAM

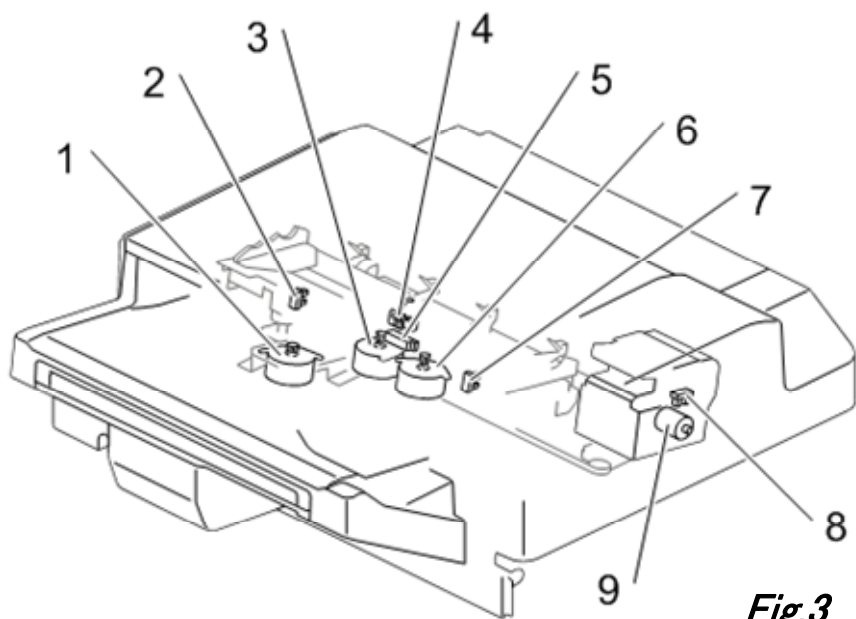
# D690 ELECTRICAL COMPONENT LAYOUT(1/2)



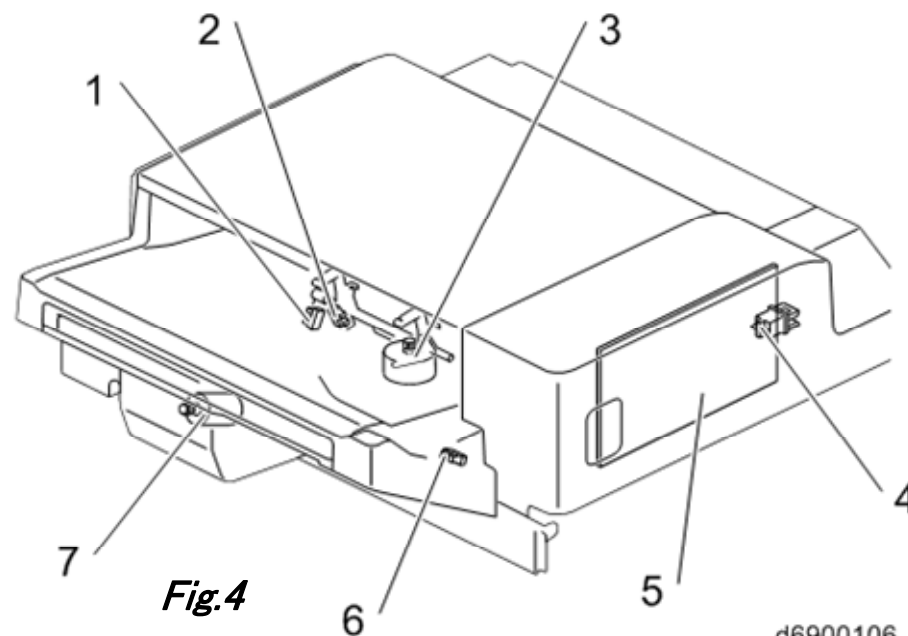
d6900103



d6900104

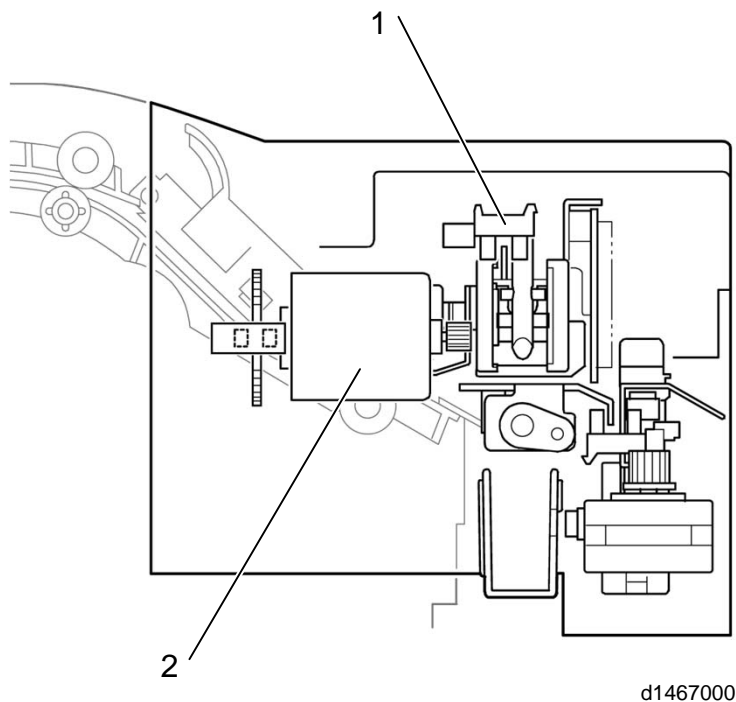


d6900105

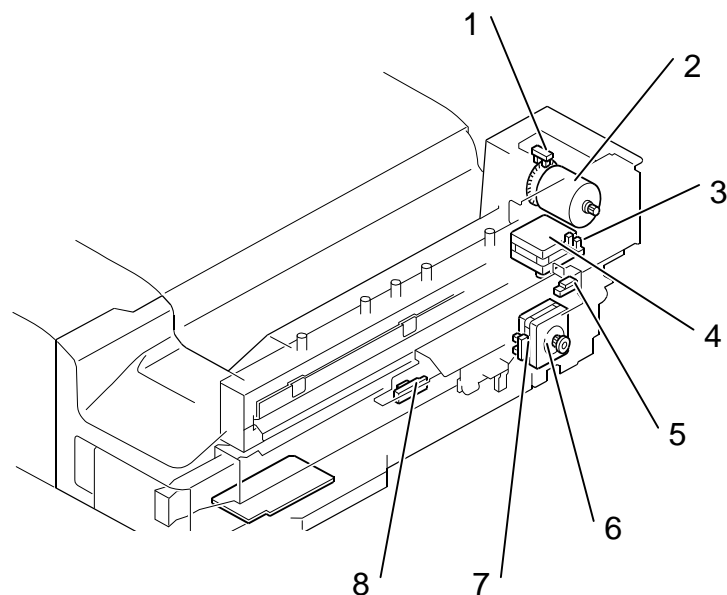


d6900106

# D690 ELECTRICAL COMPONENT LAYOUT(2/2)



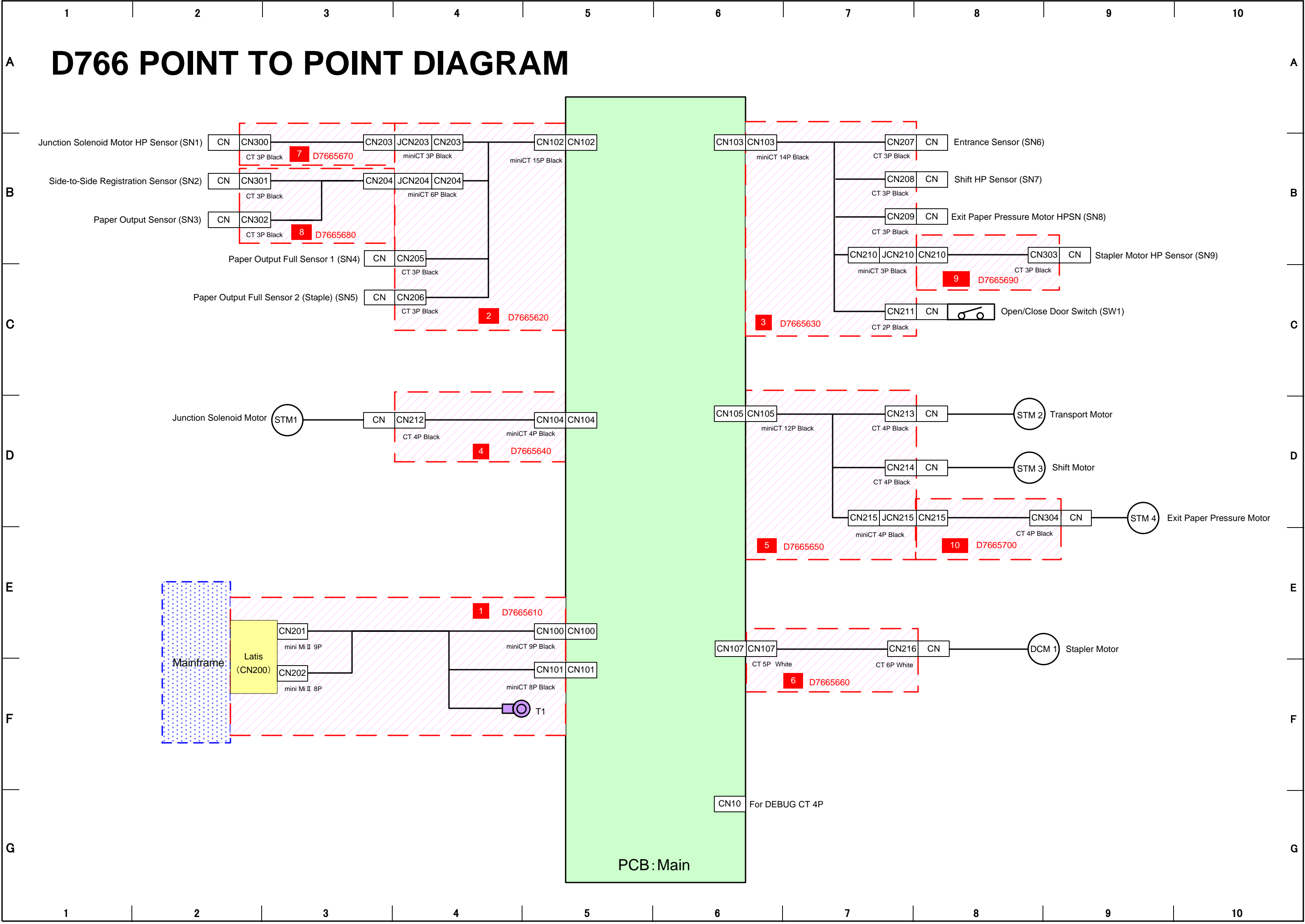
**Fig.5**



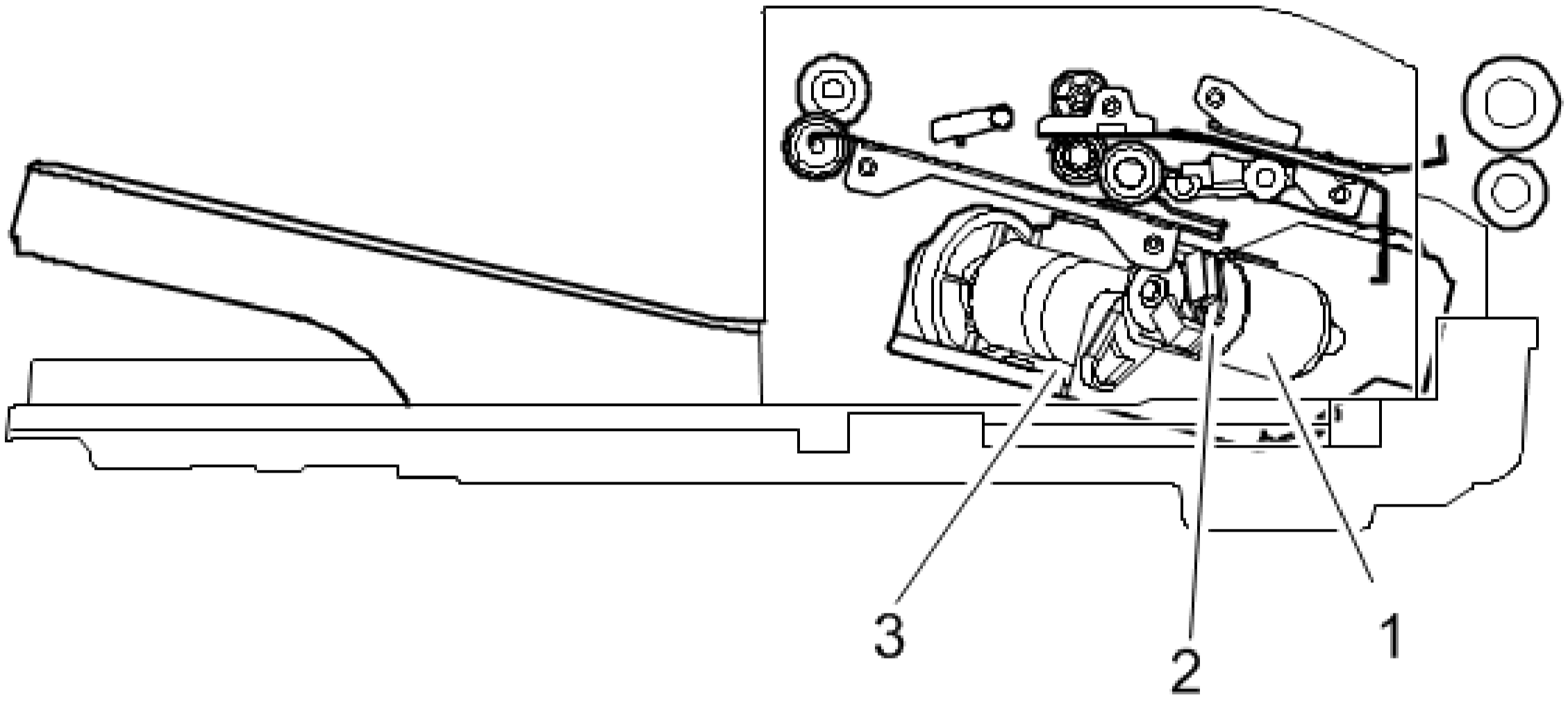
**Fig.6**

Symbol	Index No.	Description	P to P
<b>Sensors</b>			
S1	Fig.6-5	Horizontal Registration Movement Unit Home Position Sensor	J1
S2	Fig.6-7	Horizontal Registration Detection Unit Home Position Sensor	K1
S3	Fig.6-1	Punch Unit Pulse Detection Sensor	I1
S4	Fig.5-1	Punch Unit HP Sensor	I1
S5	Fig.6-3	Horizontal Registration Sensor	H1
S6	Fig.6-7	Punch Hopper Full Sensor	G1
S7	Fig.2-3	Paper Output Guide Plate Home Position Sensor	F1
S8	Fig.4-6	Paper Exit Full Sensor	G1
S9	Fig.1-3	Entrance Sensor	D1
S10	Fig.2-2	Strike Roller Home Position Sensor	F1
S11	Fig.2-4	Shift Roller HP Sensor	E1
S12	Fig.3-8	Stapler HP Sensor	D1
S13	Fig.1-2	Transport Sensor	E1
S14	Fig.3-5	Staple Tray Jam Detection Sensor	B1
S15	Fig.3-7	Jogger Fence HP Sensor (front)	B1
S16	Fig.3-2	Jogger Fence HP Sensor (rear)	C1
S17	Fig.4-2	Paper Surface Detection Sensor	A1
S18	Fig.4-1	Paper Bail Home Position Sensor	A1
S19	Fig.3-4	Paper Detection Sensor	C1
<b>Motors</b>			
M1	Fig.6-4	Horizontal Registration Movement Unit Motor	J1
M2	Fig.6-6	Horizontal Registration Detection Unit Motor	K1
M3	Fig.5-2/ Fig.6-2	Punch Motor	K8
M4	Fig.3-6	Jogger Fence Motor (front)	H16
M5	Fig.3-3	Jogger Fence Motor (rear)	H16
M6	Fig.4-3	Paper Bail Motor	I16
M7	Fig.3-9	Stapler Unit(Motor)	B16
M8	Fig.1-4	Transport Motor	C16
M9	Fig.1-5	Paper Output Motor	C16
M10	Fig.1-1	Entrance Motor	F16
M11	-	Shift Motor	E16
M12	Fig.2-5	Paper Exit Guide Plate Motor	D16
M13	Fig.3-1	Stapler Displacement Motor	G16
M14	Fig.2-1	Strike Roller Motor	G16
M15	Fig.4-7	Tray Lift Motor	I16
<b>Switches</b>			
SW1	Fig.4-4	Cover Open/Close Switch	A16
<b>FAN</b>			
FAN1	-	FAN	E16
<b>PCB</b>			
PCB1	Fig.4-5	Control Board	K11

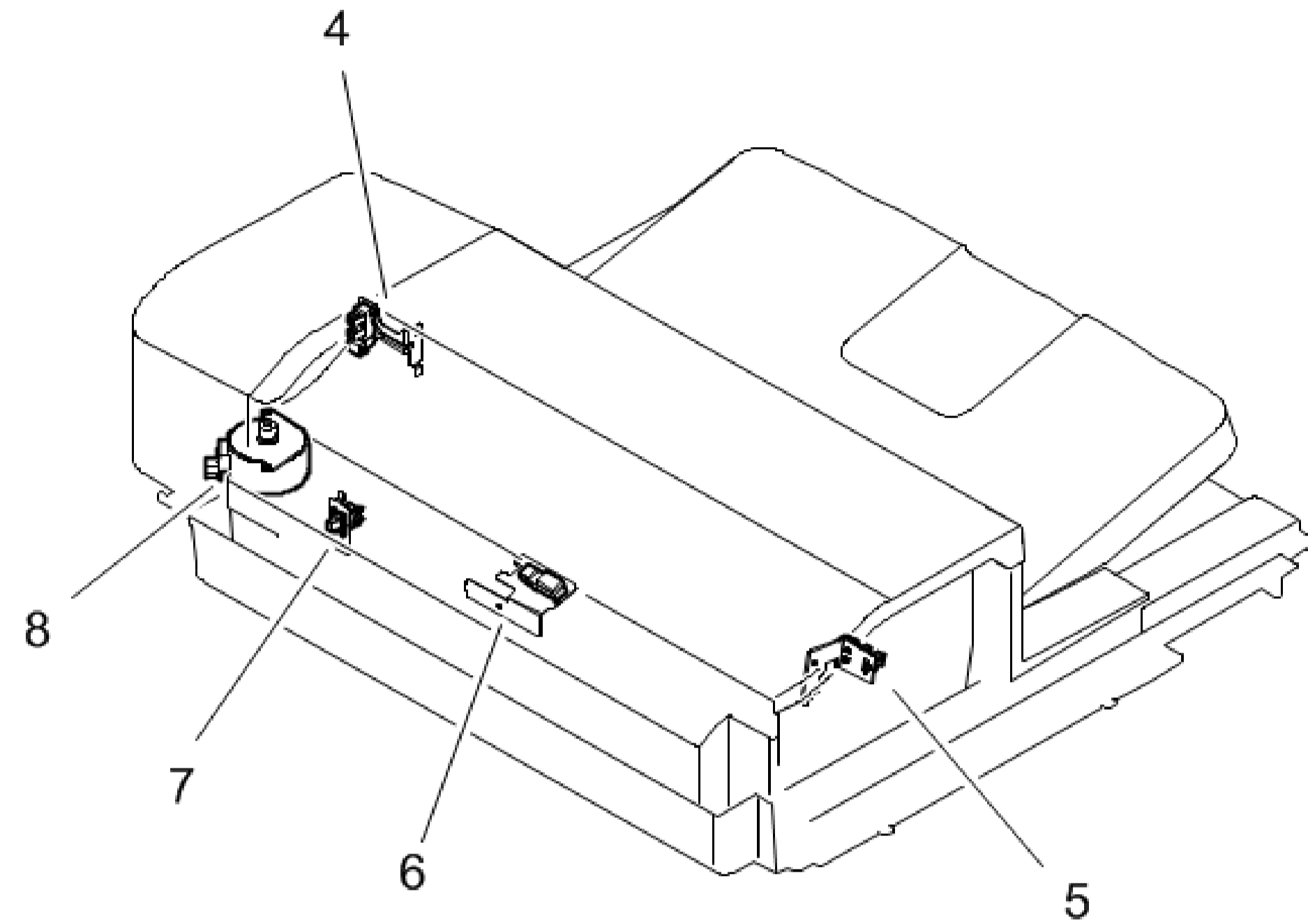
# D766 POINT TO POINT DIAGRAM



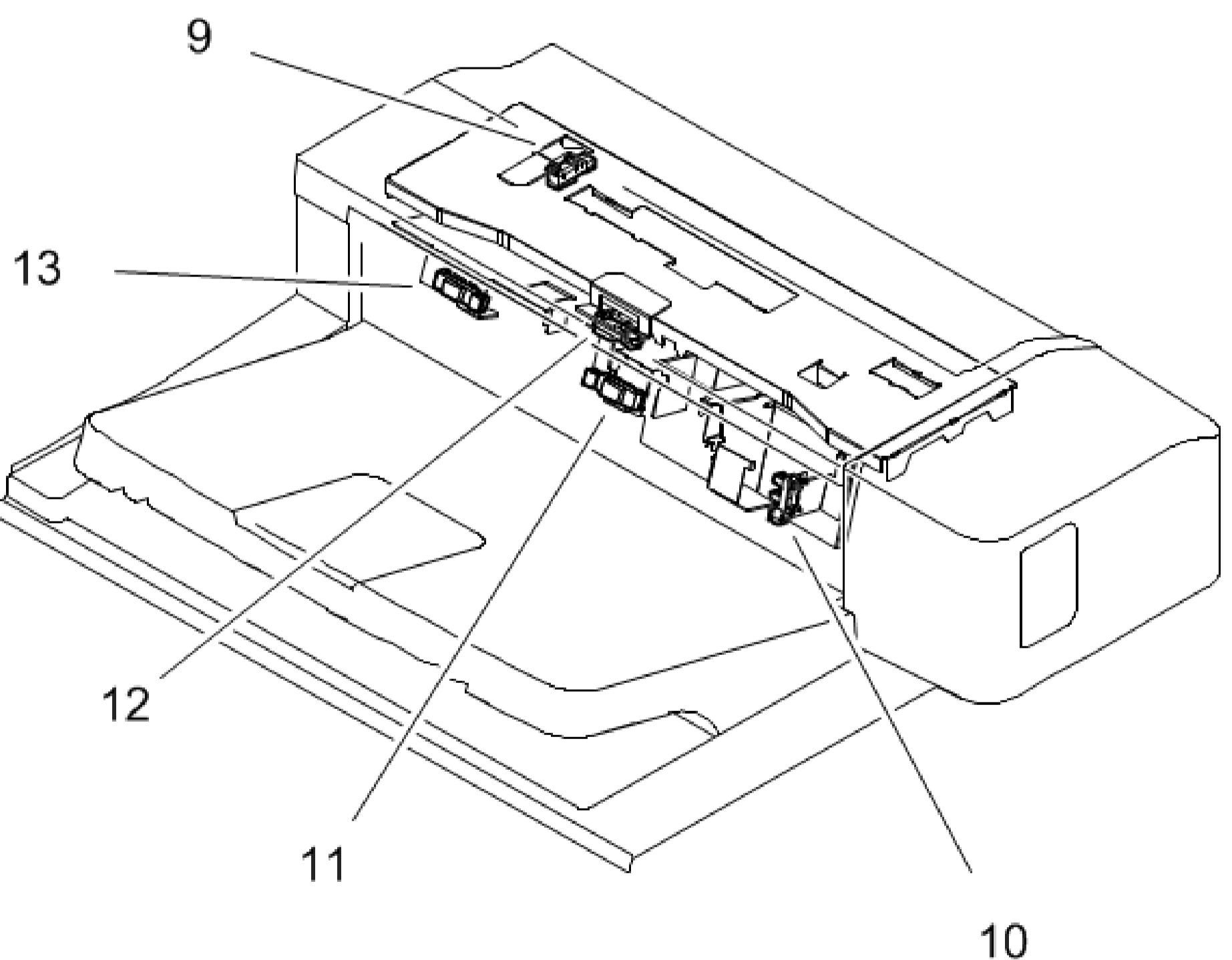
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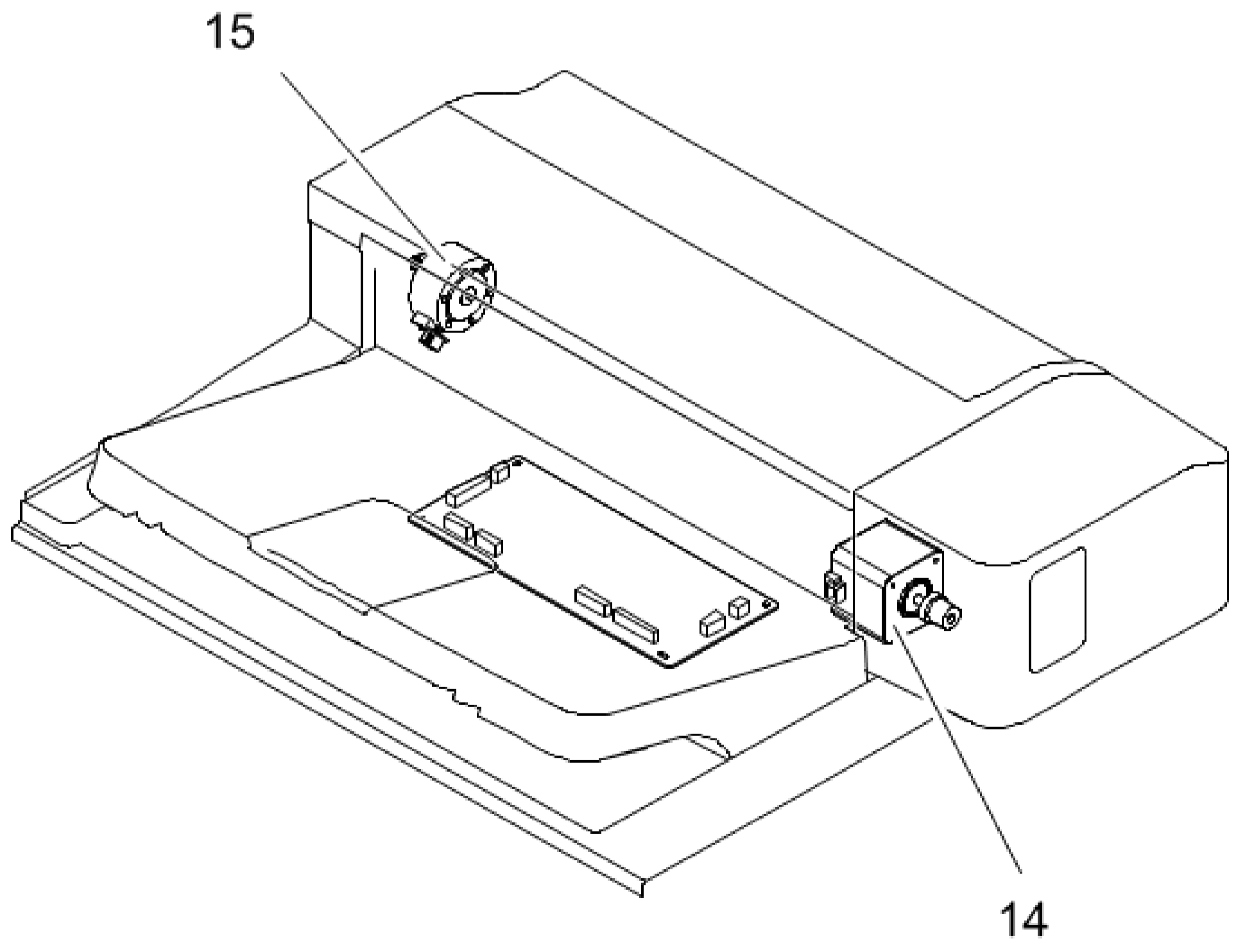
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d766f0002



d766f0003

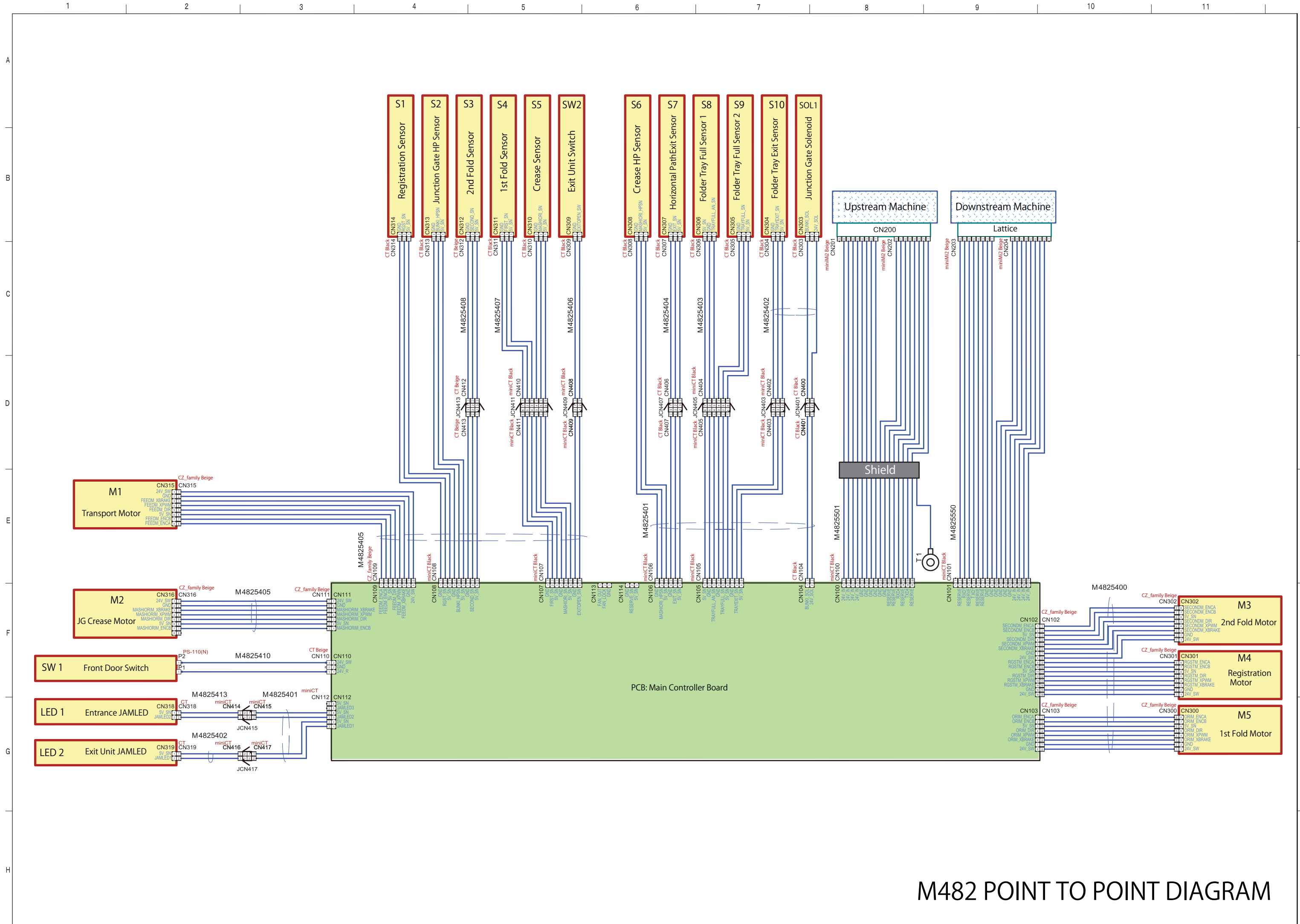


d766f0004

## D766 ELECTRICAL COMPONENT LAYOUT (2/2)

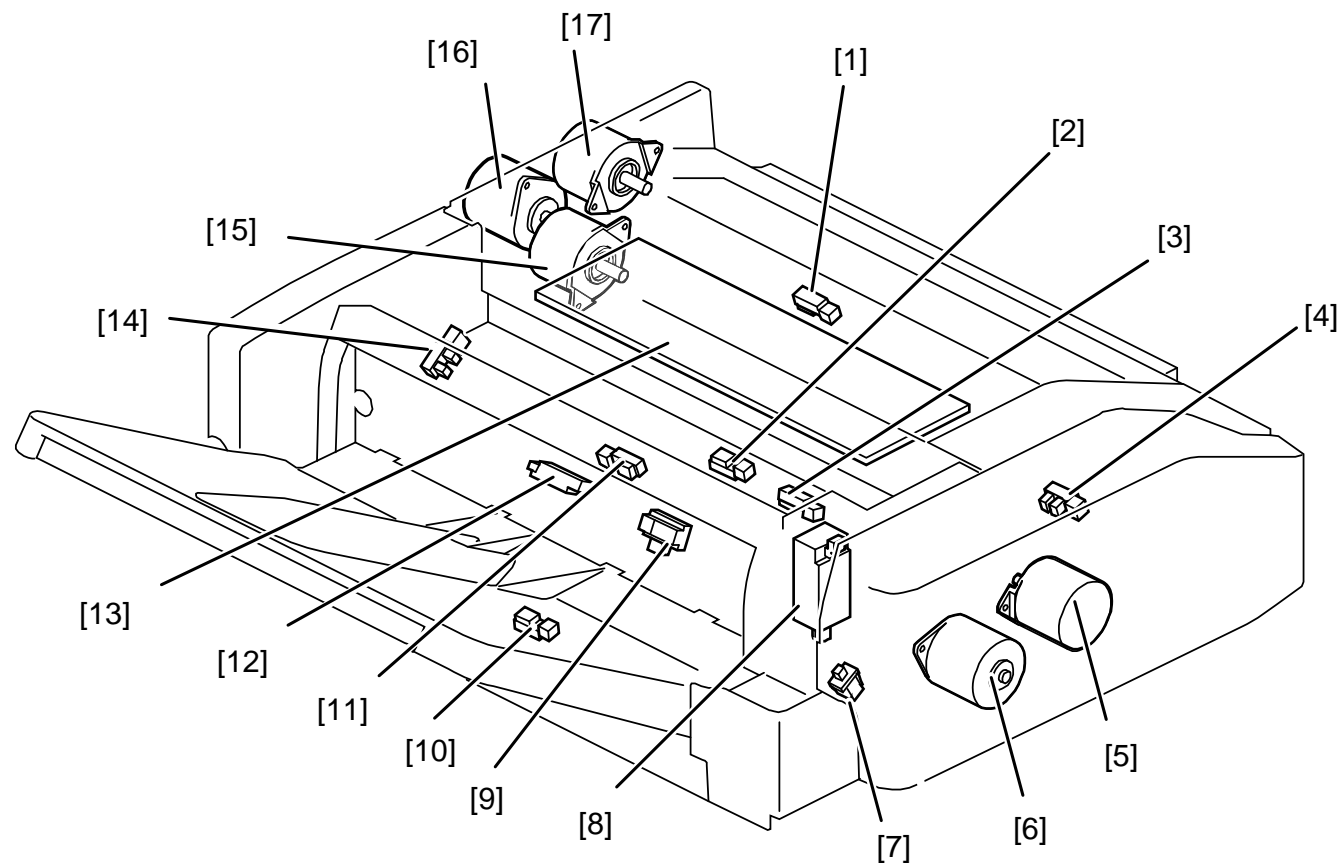
<b>Motors</b>			
<b>Symbol</b>	<b>Index No.</b>	<b>Description</b>	<b>PtoP</b>
STM1	15	Junction Solenoid Motor	D3
STM2	14	Transport Motor	D8
STM3	8	Shift Motor	D8
STM4	3	Exit Paper Pressure Motor	D9
DCM1	1	Stapler Motor	E8
<b>Sensors</b>			
<b>Symbol</b>	<b>Index No.</b>	<b>Description</b>	<b>PtoP</b>
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





M482 POINT TO POINT DIAGRAM

# M482 ELECTRICAL COMPONENT LAYOUT



m482c9004

Symbol	Index No.	Description	P to P
<b>Sensors</b>			
S1	1	Registration Sensor	B4
S2	4	Junction Gate HP Sensor	B4
S3	-	2nd Fold Sensor	B5
S4	2	1st Fold Sensor	B5
S5	3	Crease Sensor	B5
S6	14	Crease HP Sensor	B6
S7	10	Horizontal PathExit Sensor	B6
S8	12	Folder Tray Full Sensor 1	B7
S9	9	Folder Tray Full Sensor 2	B7
S10	11	Folder Tray Exit Sensor	B7
<b>Motors</b>			
M1	6	Transport Motor	E1
M2	5	JG Crease Motor	F1
M3	15	2nd Fold Motor	F11
M4	17	Registration Motor	F11
M5	16	1st Fold Motor	G11
<b>Switches</b>			
SW1	-	Front Door Switch	F1
SW2	7	Exit Unit Switch	B5
<b>Solenoid</b>			
SOL1	8	Junction Gate Solenoid	B7
<b>LED</b>			
LED1	-	Entrance JAMLED	G1
LED2	-	Exit Unit JAMLED	G1
<b>PCB</b>			
PCB1	13	Main Controller Board	F6