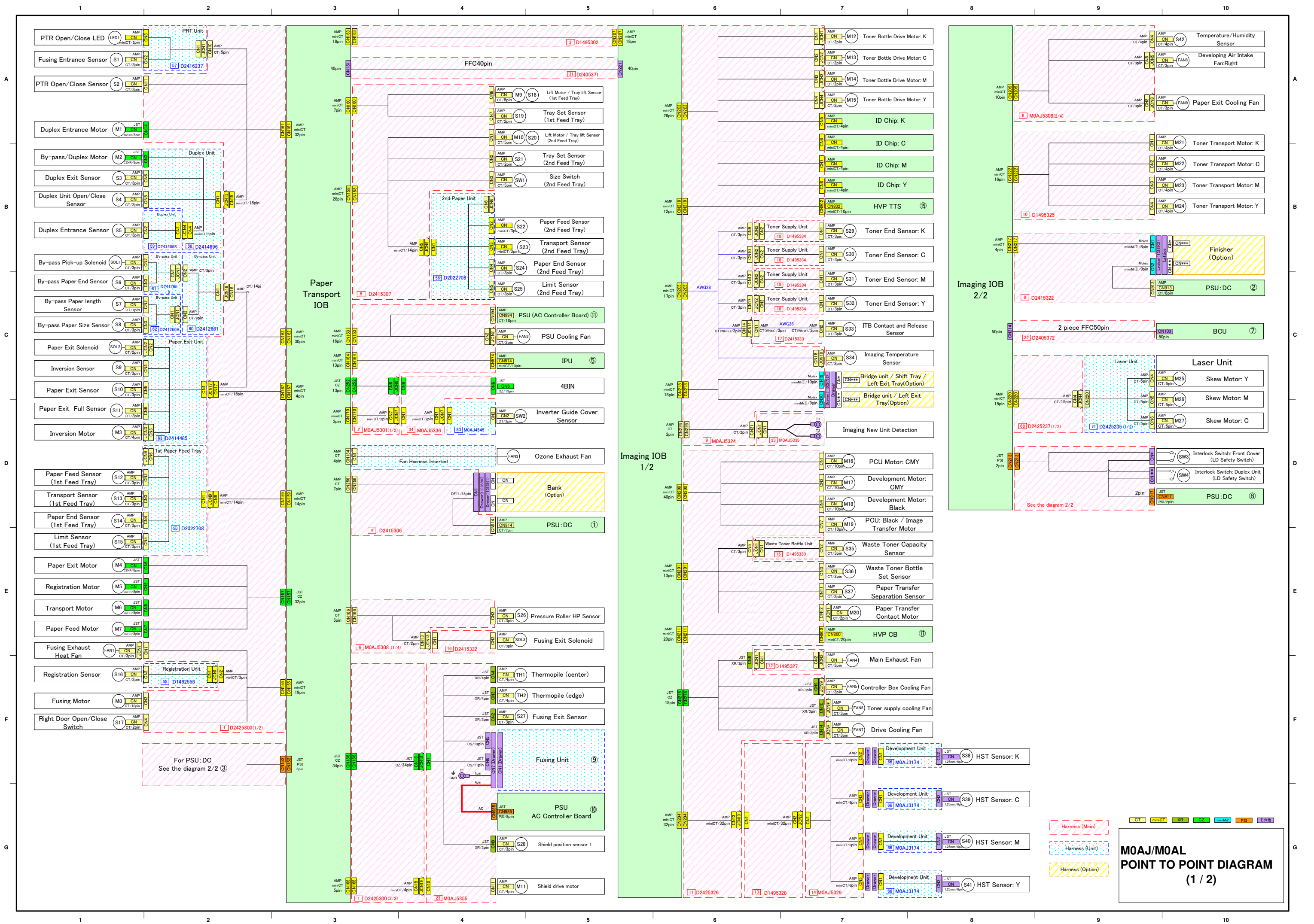
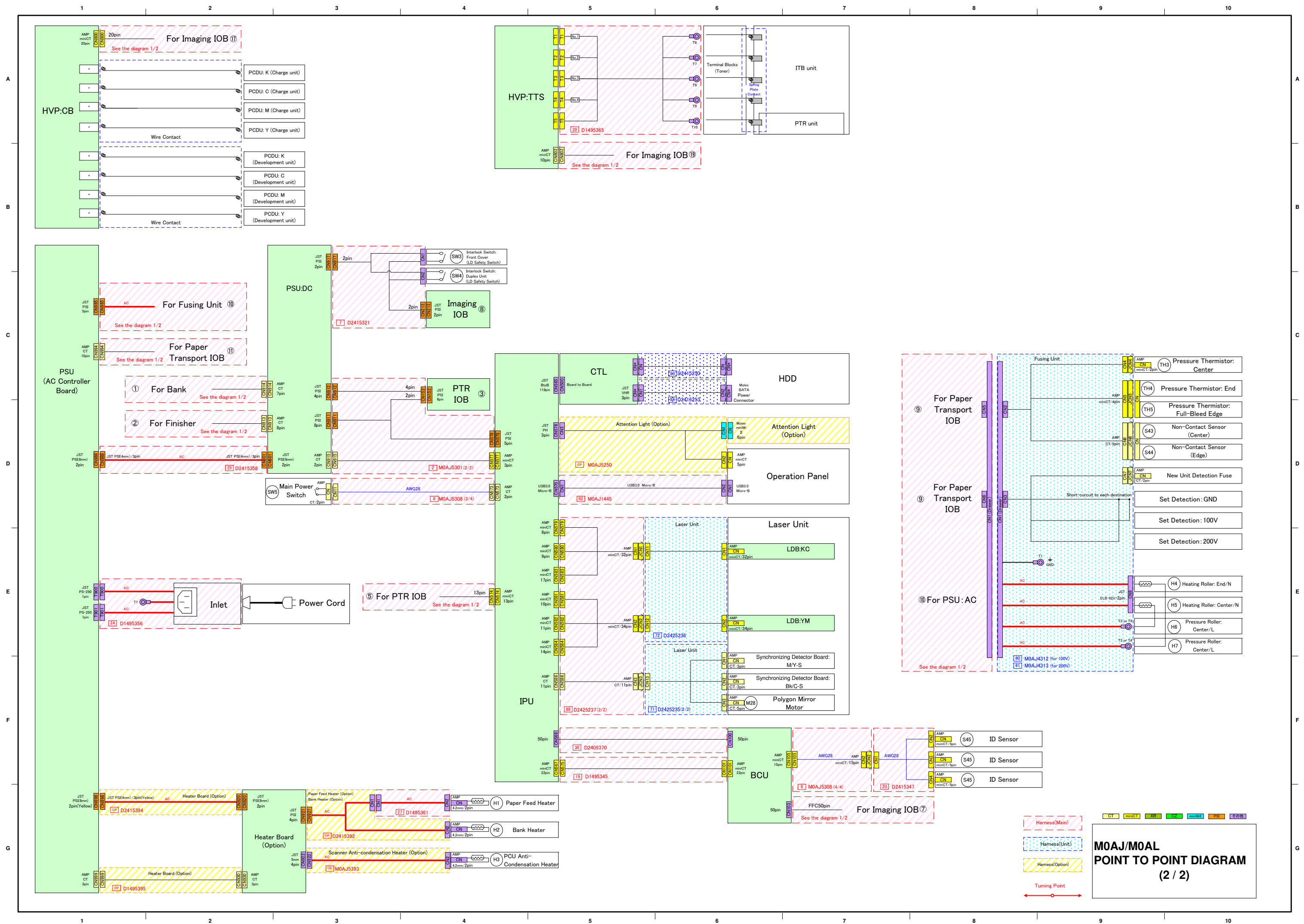
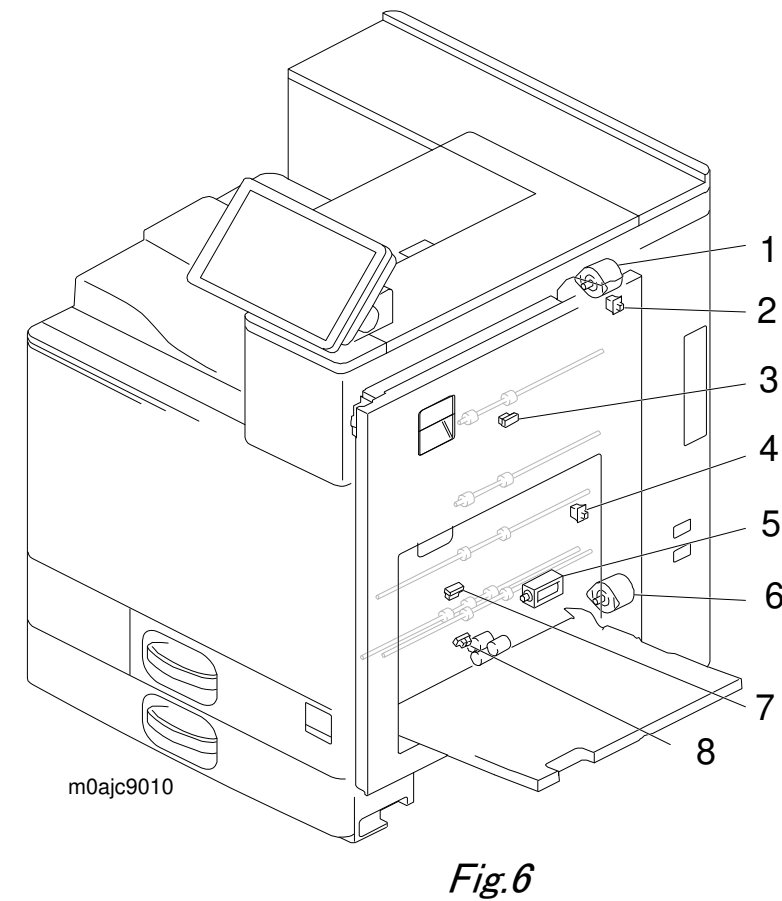
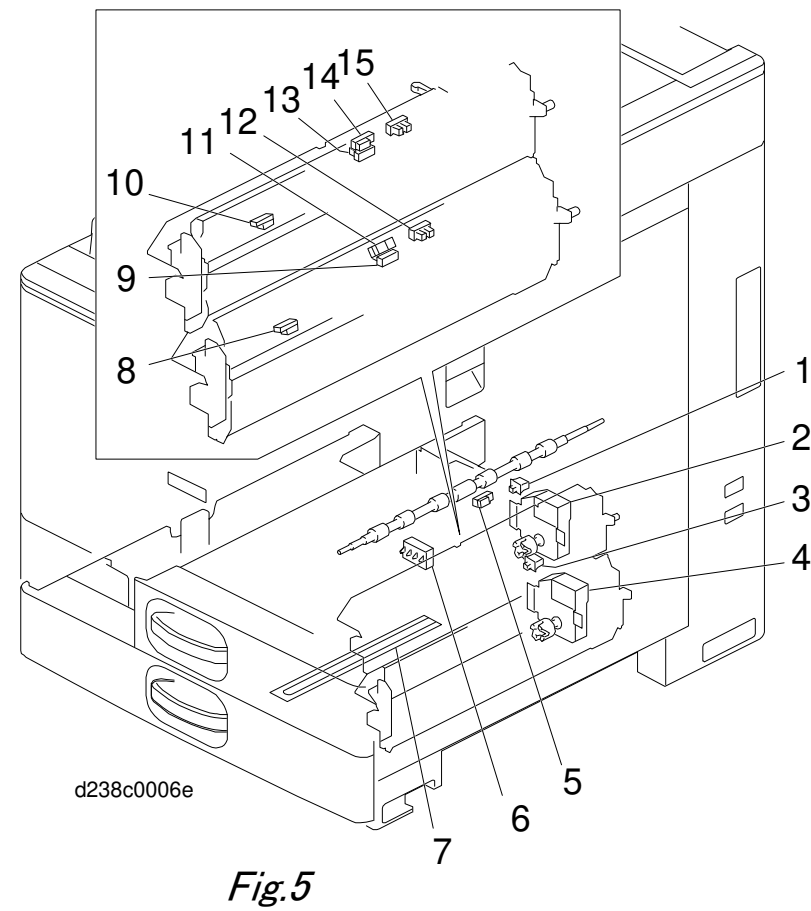
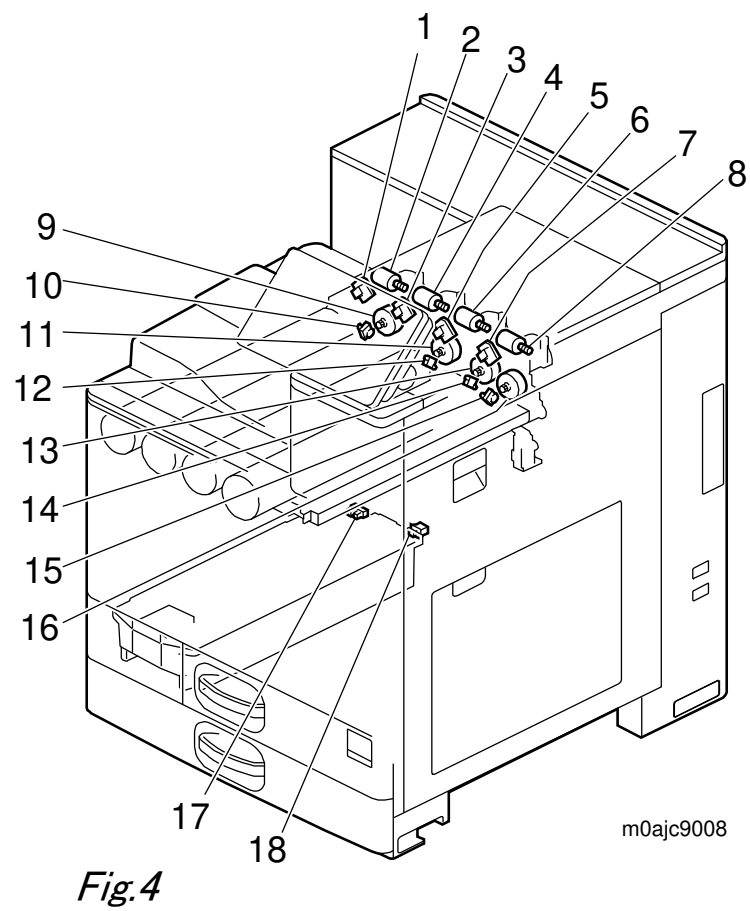
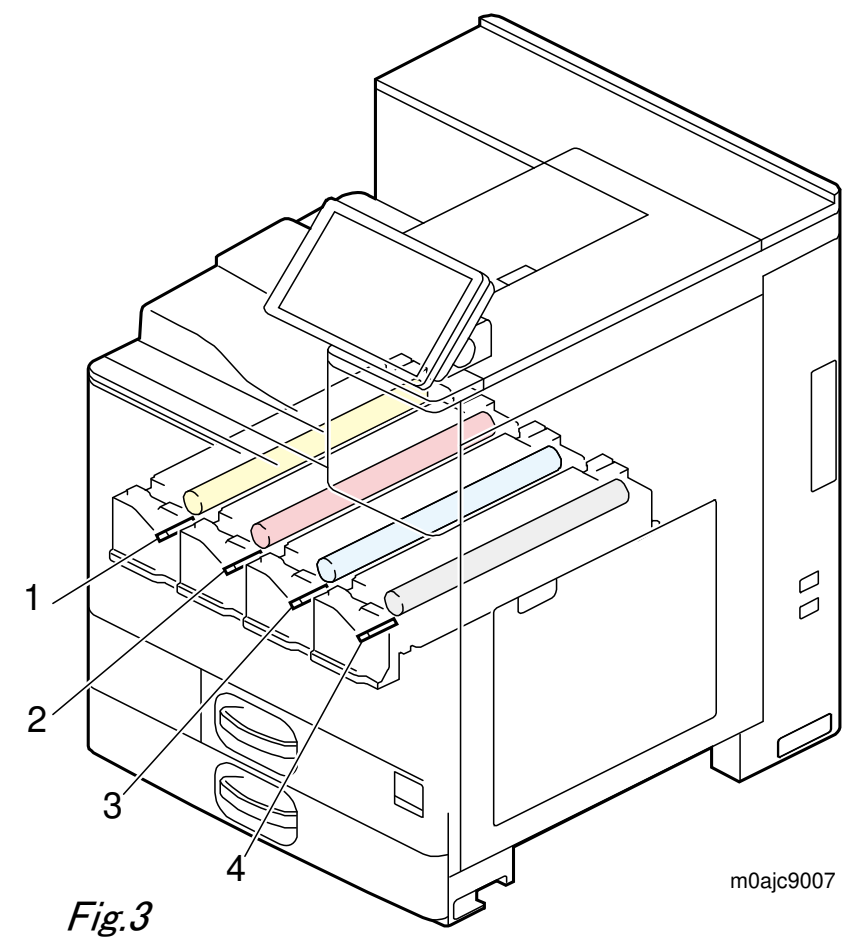
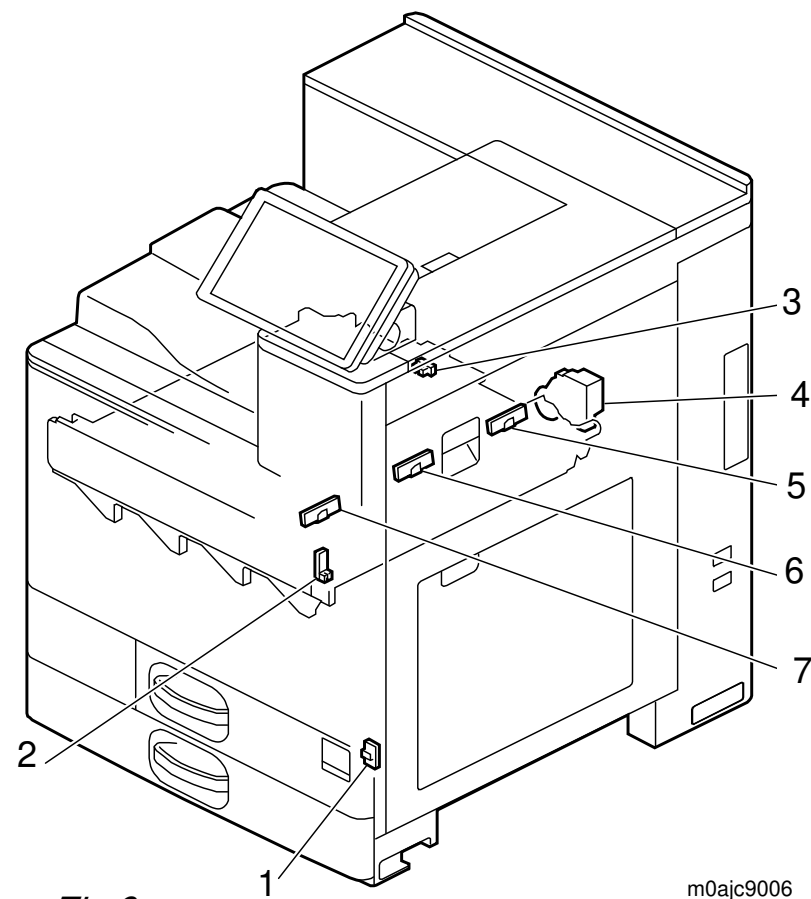
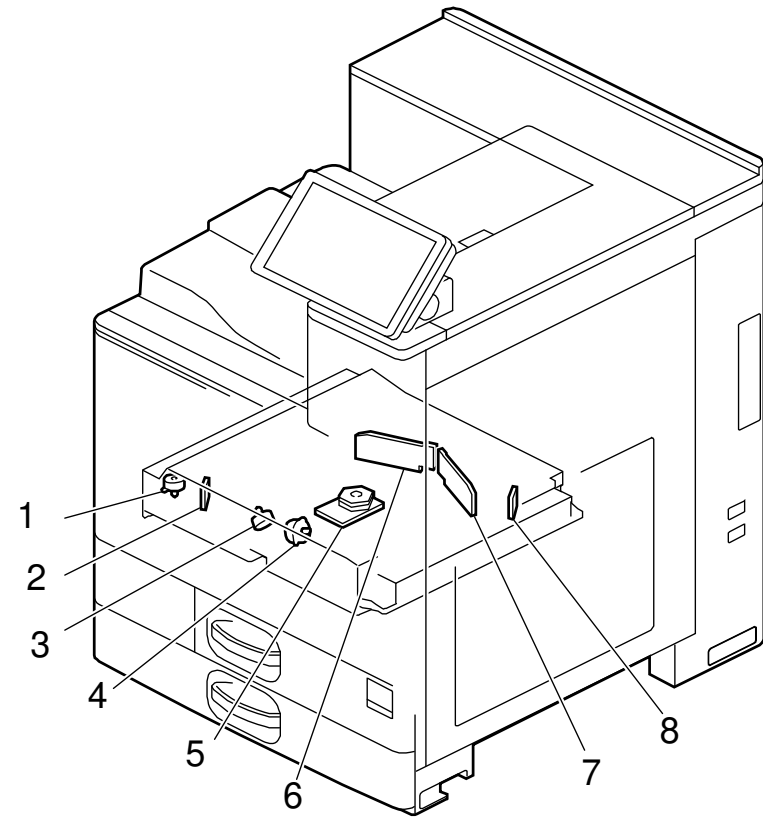




MOAJ/MOAL
POINT TO POINT DIAGRAM
(1 / 2)



M0AJ/ M0AL ELECTRICAL COMPONENT LAYOUT(1/3)



M0AJ/ M0AL ELECTRICAL COMPONENT LAYOUT(2/3)

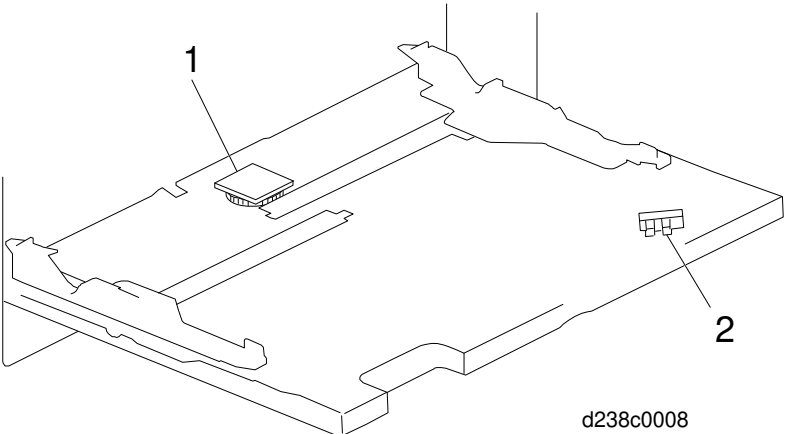


Fig.7

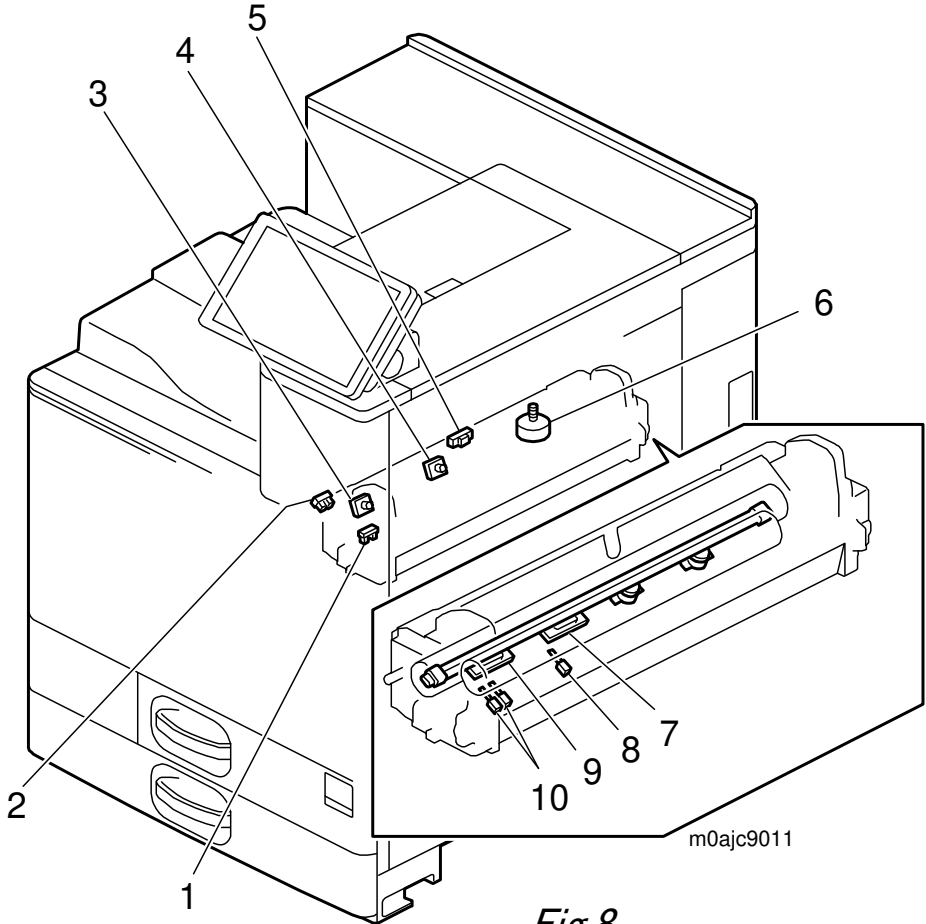


Fig.8

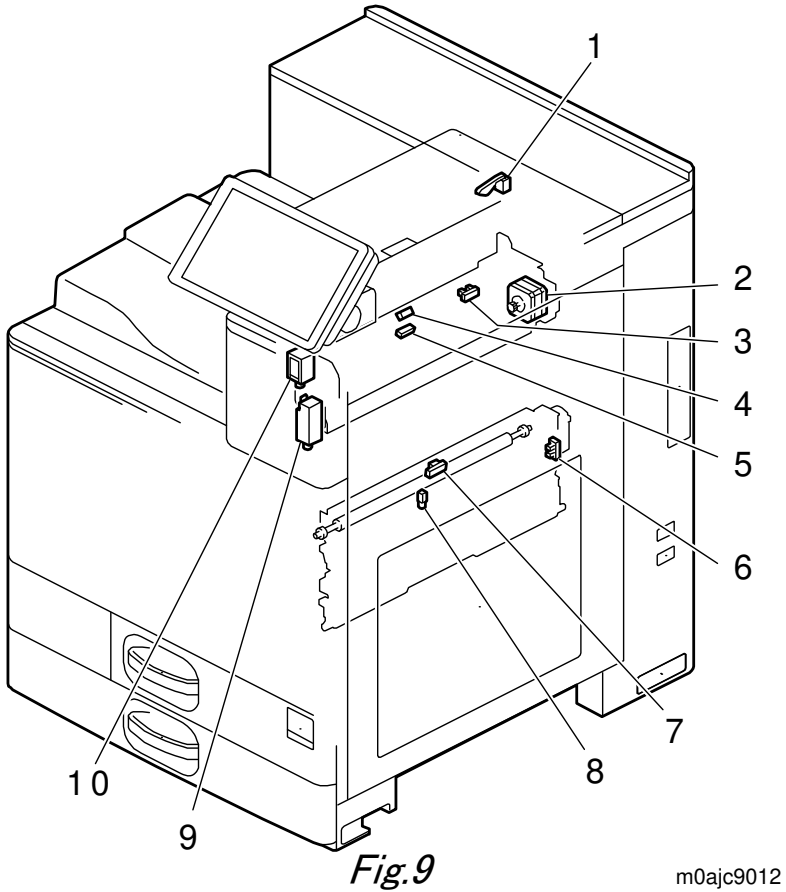


Fig.9

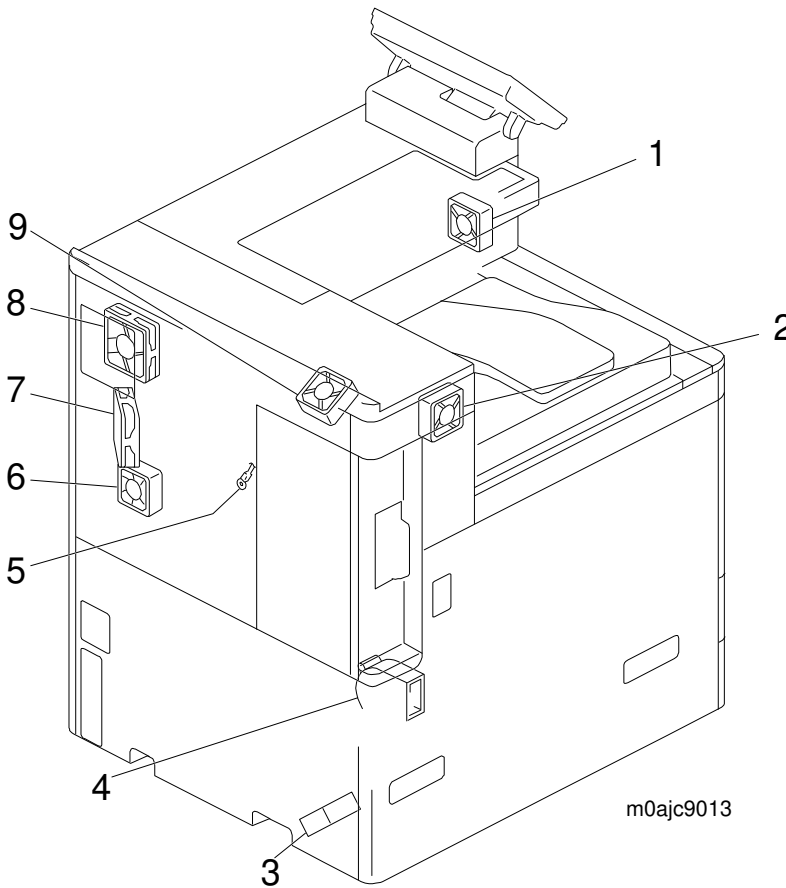


Fig.10

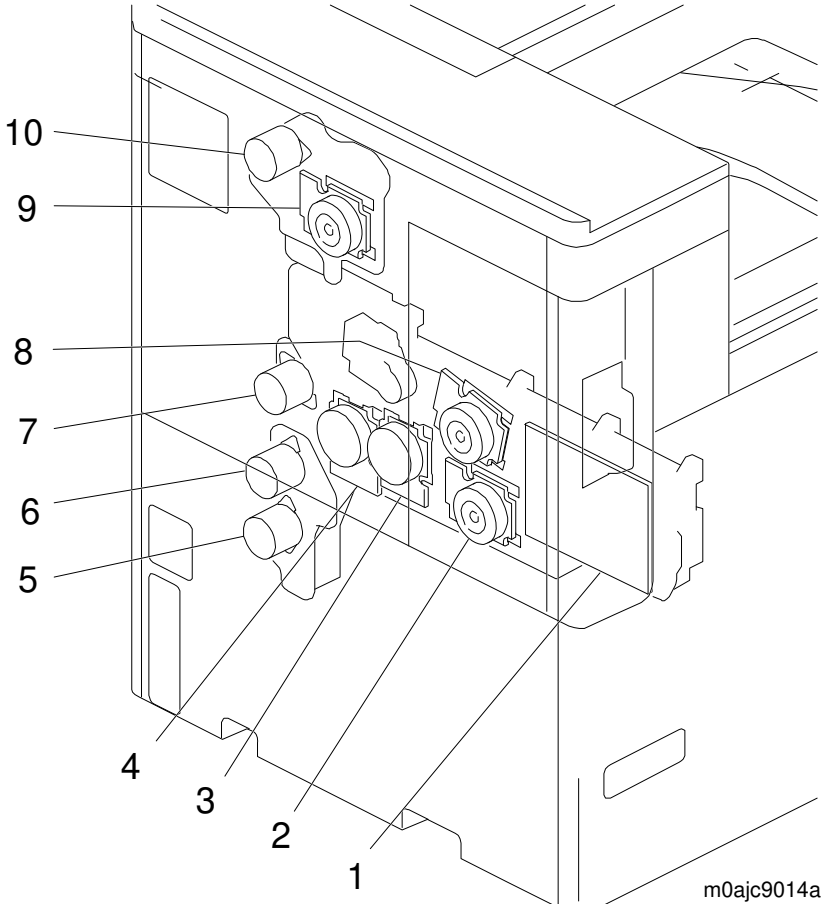


Fig.11

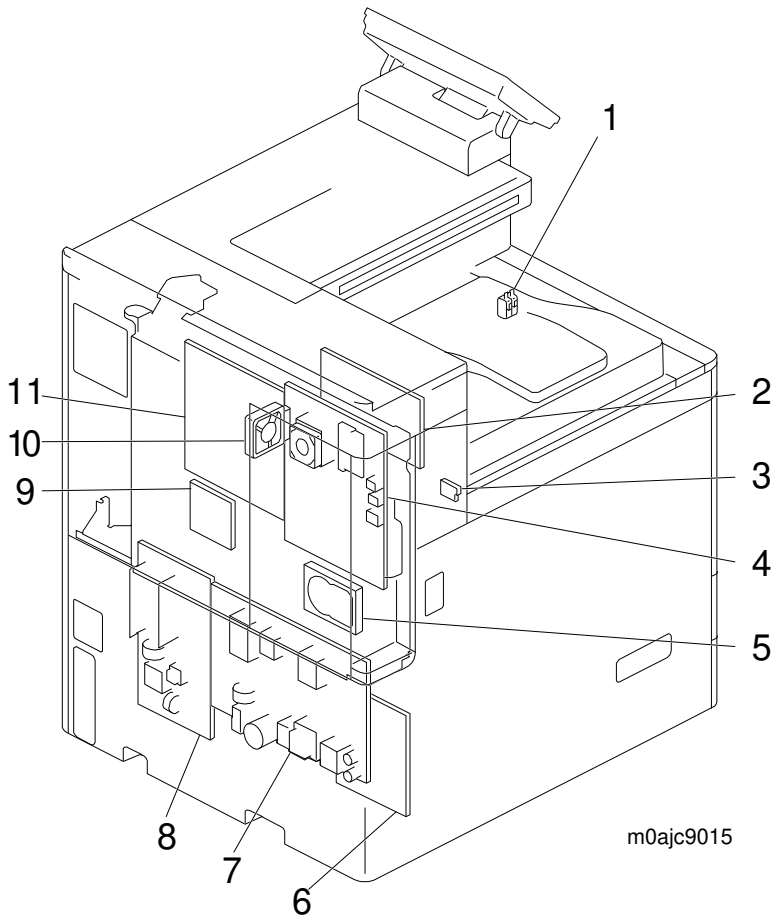


Fig.12

M0AJ/ M0AL ELECTRICAL COMPONENT LAYOUT(3/3)

Symbol		Description	P to P
Sensors			
S1	Fig.9-7	Fusing Entrance Sensor	1-A1
S2	Fig.9-6	PTR Open/Close Sensor	1-A1
S3	Fig.6-7	Duplex Exit Sensor	1-B1
S4	Fig.6-4	Duplex Unit Open/Close Sensor	1-B1
S5	Fig.6-3	Duplex Entrance Sensor	1-B1
S6	Fig.6-8	By-pass Paper End Sensor	1-C1
S7	Fig.7-2	By-pass Paper length Sensor	1-C1
S8	Fig.7-1	By-pass Paper Size Sensor	1-C1
S9	Fig.9-4	Inversion Sensor	1-C1
S10	Fig.9-5	Paper Exit Sensor	1-C1
S11	Fig.9-3	Paper Exit Full Sensor	1-D1
S12	Fig.5-10	Paper Feed Sensor (1st Feed Tray)	1-D1
S13	Fig.5-13	Transport Sensor (1st Feed Tray)	1-D1
S14	Fig.5-14	Paper End Sensor (1st Feed Tray)	1-D1
S15	Fig.5-15	Limit Sensor (1st Feed Tray)	1-E1
S16	Fig.5-5	Registration Sensor	1-F1
S17	Fig.6-2	Right Door Open/Close Switch	1-F1
S18	-	Tray Lift Sensor (1st Feed Tray)	1-A5
S19	Fig.5-1	Tray Set Sensor (1st Feed Tray)	1-A5
S20	-	Tray Lift Sensor (2nd Feed Tray)	1-A5
S21	Fig.5-3	Tray Set Sensor (2nd Feed Tray)	1-B5
S22	Fig.5-8	Paper Feed Sensor (2nd Feed Tray)	1-B5
S23	Fig.5-9	Transport Sensor (2nd Feed Tray)	1-B5
S24	Fig.5-11	Paper End Sensor (2nd Feed Tray)	1-B5
S25	Fig.5-12	Limit Sensor (2nd Feed Tray)	1-C5
S26	Fig.8-1	Pressure Roller HP Sensor	1-E5
S27	Fig.8-5/ Fig.9-8	Fusing Exit Sensor	1-F5
S28	Fig.8-2	Shield Position Sensor 1	1-G5
S29	Fig.4-15	Toner End Sensor: K	1-B7
S30	Fig.4-14	Toner End Sensor: C	1-B7
S31	Fig.4-12	Toner End Sensor: M	1-C7
S32	Fig.4-10	Toner End Sensor: Y	1-C7
S33	Fig.2-3	ITB Contact and Release Sensor	1-C7
S34	Fig.10-5	Imaging Temperature Sensor	1-C7
S35	Fig.4-17	Waste Toner Capacity Sensor	1-E7
S36	Fig.4-18	Waste Toner Bottle Set Sensor	1-E7
S37	-	Paper Transfer Separation Sensor	1-E7
S38	-	HST Sensor: K	1-F8
S39	-	HST Sensor: C	1-G8
S40	-	HST Sensor: M	1-G8
S41	-	HST Sensor: Y	1-G8
S42	Fig.2-1	Temperature/Humidity Sensor K	1-A10
S43	Fig.8-7	Non-Contact Sensor (Center)	2-D9
S44	Fig.8-9	Non-Contact Sensor (Edge)	2-D9
S45	Fig.2-5,6,7	ID Sensor	2-F8

Symbol		Description	P to P
Motors			
M1	Fig.6-1	Duplex Entrance Motor	1-A1
M2	Fig.6-6	By-pass/Duplex Motor	1-B1
M3	Fig.9-2	Inversion Motor	1-D1
M4	Fig.11-10	Paper Exit Motor	1-E1
M5	Fig.11-7	Registration Motor	1-E1
M6	Fig.11-6	Transport Motor	1-E1
M7	Fig.11-5	Paper Feed Motor	1-E1
M8	Fig.11-9	Fusing Motor	1-F1
M9	Fig.5-2	Lift Motor (1st Feed Tray)	1-A5
M10	Fig.5-4	Lift Motor (2nd Feed Tray)	1-A5
M11	Fig.8-6	Sheild Drive Motor	1-G5
M12	Fig.4-8	Toner Bottle Drive Motor: K	1-A7
M13	Fig.4-6	Toner Bottle Drive Motor: C	1-A7
M14	Fig.4-4	Toner Bottle Drive Motor: M	1-A7
M15	Fig.4-2	Toner Bottle Drive Motor: Y	1-A7
M16	Fig.11-8	PCU Motor: CMY	1-D7
M17	Fig.11-2	Development Motor: CMY	1-D7
M18	Fig.11-3	Development Motor: Black	1-D7
M19	Fig.11-4	PCU:Black/Image Transfer Motor	1-D7
M20	Fig.2-4	Paper Transfer Contact Motor	1-E7
M21	Fig.4-16	Toner Transport Motor: K	1-B10
M22	Fig.4-13	Toner Transport Motor: C	1-B10
M23	Fig.4-11	Toner Transport Motor: M	1-B10
M24	Fig.4-9	Toner Transport Motor: Y	1-B10
M25	Fig.1-1	Laser Optics Positioning Motor: Y	1-C10
M26	Fig.1-3	Laser Optics Positioning Motor: M	1-C10
M27	Fig.1-4	Laser Optics Positioning Motor: C	1-D10
M28	Fig.1-5	Polygon Mirror Motor	2-F7
LEDs			
LED1	-	PTR Open/Close LED	1-A1
Solenoids			
SOL1	Fig.6-5	By-pass Pick-up Solenoid	1-B1
SOL2	Fig.9-10	Paper Exit Solenoid	1-C1
SOL3	Fig.9-9	Fusing Exit Solenoid	1-E5
Fans			
FAN1	Fig.10-8	Fusing Exhaust Heat Fan	1-E1
FAN2	Fig.10-3	PSU Cooling Fan	1-C5
FAN3	Fig.10-4	Ozone Exhaust Fan	1-D5
FAN4	Fig.10-9	Main Exhaust Fan	1-F7
FAN5	Fig.12-10	Controller Box Cooling Fan	1-F7
FAN6	Fig.10-7	Toner Supply Cooling Fan	1-F7
FAN7	Fig.10-6	Drive Cooling Fan	1-F7
FAN8	Fig.10-2	Developing Air Intake Fan:Right	1-A10
FAN9	Fig.10-1	Paper Exit Cooling Fan	1-A10
Thermopails/Thermistors			
TH1	Fig.8-3	Thermopile (center)	1-F5
TH2	Fig.8-4	Thermopile (edge)	1-F5
TH3	Fig.8-8	Pressure Thermistor: Center	2-C10
TH4	Fig.8-10	Pressure Thermistor: End	2-C10
TH5	Fig.8-10	Pressure Thermistor: Full-Bleed Edge	2-D10
Heaters			
H1	-	Paper Feed Heater	2-G4
H2	-	Bank Heater	2-G4
H3	Fig.5-7	PCU Anticondensation Heater	2-G4
H4	-	Heating Roller: End/N	2-E10
H5	-	Heating Roller: Center/N	2-E10
H6	-	Pressure Roller: Center/L	2-E10
H7	-	Pressure Roller: Center/L	2-E10
Switches			
SW1	Fig.5-6	Size Switch (2nd Feed Tray)	1-B5
SW2	Fig.9-1	Inverter Guide Cover Switch	1-D5
SW3	Fig.12-1	Interlock Switch: Front Cover (LD Safety Switch)	1-D10/ 2-B4
SW4	Fig.2-2	Interlock Switch: Duplex Unit (LD Safety Switch)	1-D10/ 2-C4
SW5	Fig.12-3	Main Power Switch	2-D3

Symbol		Description	P to P
Others			
-	-	Operation Panel	2-D7
-	Fig.1-2	Synchronizing Detector Board: M/Y-S	2-F7
-	-	Synchronizing Detector Board: Bk/C-S	2-F7
-	Fig.3-1	PCDU: Y (Charge Unit)	2-A3
-	Fig.3-2	PCDU: M (Charge Unit)	2-A3
-	Fig.3-3	PCDU: C (Charge Unit)	2-A3
-	Fig.3-4	PCDU: K (Charge Unit)	2-A3
-	Fig.3-1	PCDU: Y (Development Unit)	2-B3
-	Fig.3-2	PCDU: M (Development Unit)	2-B3
-	Fig.3-3	PCDU: C (Development Unit)	2-B3
-	Fig.3-4	PCDU: K (Development Unit)	2-B3
-	Fig.4-1	ID Chip: Y	1-A7
-	Fig.4-3	ID Chip: M	1-B7
-	Fig.4-5	ID Chip: C	1-B7
-	Fig.4-7	ID Chip: K	1-B7
-	Fig.12-2	HVP TTS	1-B7
-	Fig.12-4	CTL	2-C5
-	Fig.12-5	HDD	2-C7
-	Fig.11-1	Imaging IOB	1-D5
-	Fig.12-6	Paper Transport IOB	1-D3
-	Fig.12-7	PSU: DC	1-C10/ 1-D10
-	Fig.12-8	PSU: AC Controller Board	1-C5/ 1-G5
-	Fig.12-9	BCU	1-C10
-	Fig.12-11	IPU	1-C5
-	Fig.1-7	LDB:KC	2-E7
-	Fig.1-8	LDB:YN	2-E7

M0AJ/M0AL Harness Pin Assignment

Harness No.	Connector (From)			Signal Information	Connector (To)			Note
	To Connector	Addr.	Pin No.		To Connector	Addr.	Pin No.	
1	Paper Transport IOB	CN155	1	Fusing Cooling Fan: +24V (CTRL)	Fusing Cooling Fan	CN1	3	CN9, CN15, CN16, CN17, CN18, CN19: With relay connector
			2	Fusing Cooling Fan: LOCK Sensor Signal			2	
			3	Fusing Cooling Fan: GND			1	
			4	Registration Sensor: GND	Harness No.55 D1492556	CN2	3	
			5	Registration Sensor: Sensor Signal			2	
			6	Registration Sensor: +5V			1	
			7	Fusing Motor: PEAKI & GAIN	Fusing Motor	CN3	10	
			8	Fusing Motor: MAKER & CLOCK			9	
			9	Fusing Motor: FG & BRK			8	
			10	Fusing Motor: ROTATE & ROTATE			7	
			11	Fusing Motor: PWM & ON			6	
			12	Fusing Motor: Fusing Motor BRK&LOCK			5	
			13	Fusing Motor: GND			4	
			14	Fusing Motor: GND			3	
			15	Fusing Motor: 24VS2			2	
			16	Fusing Motor: 24VS2			1	
			17	N.C.	-	-	-	
			18	Right Door Open/Close Switch: SW Terminal2	Right Door Open/Close Sensor	CN4	2	
			19	Right Door Open/Close Switch: SW Terminal1			1	
	Paper Transport IOB	CN157	A1	Paper Exit Motor: ENC: A Phase	Paper Exit Motor	CN6	8	
			A2	Paper Exit Motor: ENC: B Phase			7	
			A3	Paper Exit Motor: +5V			6	
			A4	Paper Exit Motor: CW/CCW (Low)			5	
			A5	Paper Exit Motor: PWM			4	
			A6	Paper Exit Motor: BRK (Low)			3	
			A7	Paper Exit Motor: GND	Transport Motor	CN8	2	
			A8	Paper Exit Motor: +24VS2			1	
			A9	Transport Motor: ENC: A Phase			8	
			A10	Transport Motor: ENC: B Phase			7	
			A11	Transport Motor: +5V			6	
			A12	Transport Motor: CW/CCW (Low)			5	
			A13	Transport Motor: PWM	Paper Feed Motor	CN7	4	
			A14	Transport Motor: BRK (Low)			3	
			A15	Transport Motor: GND			2	
			A16	Transport Motor: +24VS2			1	
			B1	Paper Feed Motor: ENC: A Phase	Registration Motor	CN5	8	
			B2	Paper Feed Motor: ENC: B Phase			7	
			B3	Paper Feed Motor: +5V			6	
			B4	Paper Feed Motor: CW/CCW (Low)			5	
			B5	Paper Feed Motor: PWM			4	
			B6	Paper Feed Motor: BRK (Low)			3	
			B7	Paper Feed Motor: GND	Registration Motor	CN5	2	
			B8	Paper Feed Motor: +24VS2			1	
			B9	Registration Motor: ENC: A Phase			8	
			B10	Registration Motor: ENC: B Phase			7	
			B11	Registration Motor: +5V			6	
			B12	Registration Motor: CW/CCW (Low)			5	
			B13	Registration Motor: PWM			4	
			B14	Registration Motor: BRK (Low)			3	
			B15	Registration Motor: GND			2	
			B16	Registration Motor: +24VS2			1	
1	Paper Transport IOB	CN159	1	Pick-up Solenoid (1st Feed Tray): Terminal1	Harness No.56 D2022708	CN9	14	CN9, CN15, CN16, CN17, CN18: With relay connector
			2	Pick-up Solenoid (1st Feed Tray): Terminal2			13	
			3	Paper Feed Sensor (1st Feed Tray): GND			12	
			4	Paper Feed Sensor (1st Feed Tray): Sensor			11	
			5	Paper Feed Sensor (1st Feed Tray): +5V			10	
			6	Transport Sensor (1st Feed Tray): GND			9	
			7	Transport Sensor (1st Feed Tray): Sensor Signal			8	
			8	Transport Sensor (1st Feed Tray): +5V			7	
			9	Paper End Sensor (1st Feed Tray): GND			6	
			10	Paper End Sensor (1st Feed Tray): Sensor Signal			5	
			11	Paper End Sensor (1st Feed Tray): +5V			4	
			12	Limit Sensor (1st Feed Tray): GND			3	
			13	Limit Sensor (1st Feed Tray): Sensor Signal			2	
			14	Limit Sensor (1st Feed Tray): +5V			1	
	Paper Transport IOB	CN161	1	PTR Open/Close LED: CTRL	Harness No.57 D2416237	CN10	5	
			2	PTR Open/Close LED: +5V			4	
			3	Fusing Entrance Sensor: GND			3	
			4	Fusing Entrance Sensor: Sensor Signal			2	
			5	Fusing Entrance Sensor: +5V	PTR Open/Close Sensor	CN11	1	
			6	PTR Open/Close Sensor: GND			3	
			7	PTR Open/Close Sensor: Sensor Signal			2	
			8	PTR Open/Close Sensor: +5V	Duplex Entrance Motor	CN14	1	
			9	Duplex Entrance Motor: ENC: A Phase			8	
			10	Duplex Entrance Motor: ENC: B Phase			7	
			11	Duplex Entrance Motor: +5V			6	
			12	Duplex Entrance Motor: CW/CCW (Low)			5	
			13	Duplex Entrance Motor: PWM			4	
			14	Duplex Entrance Motor: BRK (Low)	Harness No.58 D2414696	CN15	3	
			15	Duplex Entrance Motor: GND			2	
			16	Duplex Entrance Motor: +24VS2			1	
			17	By-pass/Duplex Motor: ENC: A Phase			18	
			18	By-pass/Duplex Motor: ENC: B Phase			17	
			19	By-pass/Duplex Motor: +5V			16	
			20	By-pass/Duplex Motor: CW/CCW (Low)			15	
			21	By-pass/Duplex Motor: PWM			14	
			22	By-pass/Duplex Motor: BRK (Low)			13	
			23	By-pass/Duplex Motor: GND			12	
			24	By-pass/Duplex Motor: +24VS2			11	
			25	Duplex Entrance Sensor: GND			10	
			26	Duplex Entrance Sensor: Sensor Signal			9	
			27	Duplex Entrance Sensor: +5V			8	
			28	Duplex Exit Sensor: GND			7	
			29	Duplex Exit Sensor: Sensor Signal			6	
			30	Duplex Exit Sensor: +5V			5	
			31	Duplex Unit Open/Close Sensor: SW Terminal2			4	
			32	Duplex Unit Open/Close Sensor: SW Terminal1			3	
			-	N.C.			2	
			-	N.C.			1	

M0AJ/M0AL Harness Pin Assignment

Harness No.	Connector (From)			Signal Information	Connector (To)			Note				
	To Connector	Addr.	Pin No.		To Connector	Addr.	Pin No.					
1	Paper Transport IOB	CN162	1	By-pass Pick-up Solenoid: Terminal2 (PWM)	Harness No.60 D2412661	CN16	14	CN9, CN15, CN16, CN17, CN18, CN19: With relay connector				
			2	By-pass Pick-up Solenoid: Terminal1 (+24VS2)			13					
			3	By-pass Paper End Sensor: GND			12					
			4	By-pass Paper End Sensor: Sensor Signal			11					
			5	By-pass Paper End Sensor: +5V			10					
			6	By-pass Paper Length Sensor: SW Terminal2			9					
			7	By-pass Paper Length Sensor: SW Terminal1			8					
			8	By-pass Paper Length Sensor: COM Terminal			7					
			9	By-pass Paper Length Sensor: SW Terminal4			6					
			10	By-pass Paper Length Sensor: SW Terminal5			5					
			11	By-pass Paper Length Sensor: SW Terminal3			4					
			12	By-pass Paper Size Sensor: GND			3					
			13	By-pass Paper Size Sensor: Sensor Signal			2					
			14	By-pass Paper Size Sensor: +5V			1					
			15	N.C.	-	-						
			16	Paper Exit Solenoid: Terminal1 (+24VS2)	Harness No.63 D2414485	CN17	15					
			17	Paper Exit Solenoid: Terminal2 (PWM)			14					
			18	Inversion Sensor: GND			13					
			19	Inversion Sensor: Sensor Signal			12					
			20	Inversion Sensor: +5V			11					
			21	Paper Exit Sensor: GND			10					
			22	Paper Exit Sensor: Sensor Signal			9					
			23	Paper Exit Sensor: +5V			8					
			24	Exit Tray Full Detection Sensor: GND			7					
			25	Exit Tray Full Detection Sensor: Sensor Signal			6					
			26	Exit Tray Full Detection Sensor: +5V			5					
			27	N.C.	-	-	-					
			28	N.C.	-	-	-					
			29	N.C.	-	-	-					
			30	N.C.	-	-	-					
	Paper Transport IOB	CN167	1	Inversion Motor: XB Phase	Harness No.63 D2414485	CN17	4					
			2	Inversion Motor: B Phase			3					
			3	Inversion Motor: XA Phase			2					
			4	Inversion Motor: A Phase			1					
	Paper Transport IOB	CN156	A1	Set Detection (P): GND	Harness No.23 D2425355	CN18	A17					
			A2	Set Detection (C): GND			A16					
			A3	Set Detection: NA			A15					
			A4	Set Detection: EU			A14					
			A5	Set Detection : Special Paper			A13					
			A6	NewUnit Detection Fuse			A12					
			A7	NewUnit Detection Fuse: GND			A11					
			A8	Thermopile (Edge): +5V			A10					
			A9	Thermopile (Edge): GND			A9					
			A10	Thermopile (Edge): FB			A8					
			A11	Thermopile (Center): +5V			A7					
			A12	Thermopile (Center): GND			A6					
			A13	Thermopile (Center): FB			A5					
			A14	Thermopile (Exit): GND			A4					
			A15	Thermopile (Exit): Sensor Signal			A3					
			A16	Thermopile (Exit): +5V			A2					
			A17	N.C.			A1					
			B1	N.C.			B17					
			B2	N.C.			B16					
			B3	Positioning Sensor/1:GND			B15					
			B4	Positioning Sensor/1:Sensor Signal			B14					
			B5	Positioning Sensor/1:+5V			B13					
			B6	Non-Contact Thermistor (Edge): Detection			B12					
			B7	Non-Contact Thermistor (Edge): Compensation			B11					
			B8	Non-Contact Thermistor (Edge): GND			B10					
			B9	Non-Contact Thermistor (Center): Detection			B9					
			B10	Non-Contact Thermistor (Center): Compensation			B8					
			B11	Non-Contact Thermistor (Center): GND			B7					
			B12	Pressure Thermistor: Expanded End: FB			B6					
			B13	Pressure Thermistor: Expanded End: GND			B5					
			B14	Pressure Thermistor: End: FB			B4					
			B15	Pressure Thermistor: End: GND			B3					
			B16	Pressure Thermistor: Center: FB			B2					
			B17	Pressure Thermistor: Center: GND			B1					
			Paper Transport IOB	CN168			1		Fusing Douser Drive Motor :XB Fase(B3)	Harness No.23 D2425355	CN19	4
							2		Fusing Douser Drive Motor :B Fase(B1)			3
							3		Fusing Douser Drive Motor :A Fase(A1)			2
							4		Fusing Douser Drive Motor :XA Fase(A3)			1
							5		N.C.			-

Harness No.	Connector (From)			Signal Information	Connector (To)			Note
	To Connector	Addr.	Pin No.		To Connector	Addr.	Pin No.	
2	Paper Transport IOB	CN153	1	AC driver: +24V	PSU (AC)	CN994	10	CN2, CN5, CN7: With relay connector
			2	AC driver: GND			9	
			3	AC driver: Zero Cross Signal1			8	
			4	AC driver: Fusing Relay Trigger Signal1			7	
			5	AC driver: Anti-condensation Heater Relay Trigger Signal			6	
			6	AC driver: AC Voltage Detection Signal			5	
			7	AC driver: Fusing Heater2 Trigger Signal			4	
			8	AC driver: Fusing Heater1 Trigger Signal			3	
			9	AC driver: Fusing Relay Trigger Signal2			2	
			10	AC driver: Zero Cross Signal2			1	
			11	PSU Cooling Fan: +24V (CTRL)	PSU Cooling Fan	CN2	3	
			12	PSU Cooling Fan: LOCK Sensor Signal			2	
			13	PSU Cooling Fan: GND			1	
			14	N.C.	-	-	-	
			15	N.C.	-	-	-	
			16	N.C.	-	-	-	
	Paper Transport IOB	CN164	1	IPU: GND	IPU	CN574	13	
			2	IPU: +5VE			12	
			3	IPU: GND			11	
			4	IPU: +24V			10	
			5	IPU: +24V			9	
			6	IPU: +24V			8	
			7	IPU: +24V			7	
			8	IPU: GND			6	
			9	IPU: GND			5	
			10	IPU: GND			4	
			11	IPU: +24VS1			3	
			12	IPU: +24VS2			2	
			13	IPU: GND			1	
	Paper Transport IOB	CN170	1	N.C.	Harness No. 34 M0AJ5336	CN7	-	
			2	Inverter Guide Cover Sensor: Signal			2	
			3	Inverter Guide Cover Sensor: GND			1	
	Paper Transport IOB	CN252	1	4 BIN: UART RX	Harness No. 33 M0AJ5336	CN6	13	
			2	N.C.			12	
			3	4 BIN: UART TX			11	
			4	4 BIN: +5V			10	
			5	4 BIN: +5V			9	
			6	4 BIN: GND			8	
			7	4 BIN: GND			7	
			8	4 BIN: GND			6	
			9	4 BIN: GND			5	
			10	4 BIN: GND			4	
			11	4 BIN: +24V			3	
			12	4 BIN: +24V			2	
			13	4 BIN: +24V			1	
	IPU	CN577	1	PSU: DC: PONENG N	PSU (DC)	CN915	2	
			2	N.C.			-	
			3	PSU: DC: GND			1	
	Paper Transport IOB	CN152	1	PSU: +24V	PSU (DC)	CN912	4	
			2	PSU: +24V			3	
			3	PSU: GND (+24V)			2	
			4	PSU: GND (+24V)			1	
			5	PSU: GND (+5V)			4	
			6	PSU: +5V			8	
	IPU	CN578	1	PSU: GND	PSU (DC)	CN911	2	
			2	PSU: GND			3	
			3	PSU: 5V			7	
			4	PSU: 5VX			6	
			5	PSU: 5VX			5	
	-	-	-	N.C.	-	-	1	

M0AJ/M0AL Harness Pin Assignment

Harness No.	Connector (From)			Signal Information	Connector (To)			Note
	To Connector	Addr.	Pin No.		To Connector	Addr.	Pin No.	
3	Image Processing IOB	CN207	1	Paper Transport IOB: GND	Paper Transport IOB	CN163	18	
			2	Paper Transport IOB: GND			17	
			3	Paper Transport IOB: +24VS2			16	
			4	Paper Transport IOB: +24VS2			15	
			5	Paper Transport IOB: +24VS2			14	
			6	Paper Transport IOB: +24VS2			13	
			7	Paper Transport IOB: +24VS1			12	
			8	Paper Transport IOB: GND			11	
			9	Paper Transport IOB: GND			10	
			10	Paper Transport IOB: GND			9	
			11	Paper Transport IOB: GND			8	
			12	Paper Transport IOB: GND			7	
			13	Paper Transport IOB: GND			6	
			14	Paper Transport IOB: +5V			5	
			15	Paper Transport IOB: +24V			4	
			16	Paper Transport IOB: +24V			3	
			17	Paper Transport IOB: +24V			2	
			18	Paper Transport IOB: GND			1	
4	Paper Transport IOB	CN256	1	Bank: RXD	Bank Drawer	CN1	16	
			2	Bank: TXD			14	
			3	Bank: GND			12	
			4	Bank: GND			10	
			5	Bank: +5V			8	
			6	Bank: +5V			6	
			7	Bank: GND			4	
	PSU (DC)	CN914	1	PSU: GND			3	
			2	PSU: GND			5	
			3	PSU: GND			7	
			4	PSU: 24V			9	
			5	PSU: 24V			11	
			6	PSU: 24V			13	
			7	PSU: 24V			15	
	-	-	-	N.C.			1	
	-	-	-	N.C.			2	
	-	-	-	N.C.			17	
	-	-	-	N.C.			18	
5	Paper Transport IOB	CN158	1	Lift Motor (2nd Feed Tray): Sensor: Paper Remaining Detection	Lift Motor (2nd Feed Tray): Sensor	CN1	5	CN5: With relay connector
			2	Lift Motor (2nd Feed Tray): Sensor: Paper Remaining Detection: GND			4	
			3	Lift Motor (2nd Feed Tray): Sensor: Paper Remaining Detection			3	
			4	Lift Motor (2nd Feed Tray): Sensor: CTRL -			2	
			5	Lift Motor (2nd Feed Tray): Sensor: CTRL +	Tray Set Switch (2nd Feed Tray)	CN2	1	
			6	Tray Set Switch (2nd Feed Tray): GND			2	
			7	Tray Set Switch (2nd Feed Tray): SW Terminal1			1	
			8	Size Switch (2nd Feed Tray): SW Terminal4	Size Switch (2nd Feed Tray)	CN3	5	
			9	Size Switch (2nd Feed Tray): GND			4	
			10	Size Switch (2nd Feed Tray): SW Terminal3			3	
			11	Size Switch (2nd Feed Tray): SW Terminal2			2	
			12	Size Switch (2nd Feed Tray): SW Terminal1			1	
			13	N.C.	-	-	-	
			14	N.C.	-	-	-	
	Paper Transport IOB	CN160	15	Pick-up Solenoid (2nd Feed Tray): +24VS2	Harness No.56 D2022708	CN5	14	
			16	Pick-up Solenoid (2nd Feed Tray): PWM			13	
			17	Paper Feed Sensor (2nd Feed Tray): GND			12	
			18	Paper Feed Sensor (2nd Feed Tray): Sensor			11	
			19	Paper Feed Sensor (2nd Feed Tray): +5V			10	
			20	Transport Sensor (2nd Feed Tray): GND			9	
			21	Transport Sensor (2nd Feed Tray): Sensor Signal			8	
			22	Transport Sensor (2nd Feed Tray): +5V			7	
			23	Paper End Sensor (2nd Feed Tray): GND			6	
			24	Paper End Sensor (2nd Feed Tray): Sensor			5	
			25	Paper End Sensor (2nd Feed Tray): +5V			4	
			26	Limit Sensor (2nd Feed Tray): GND			3	
			27	Limit Sensor (2nd Feed Tray): Sensor Signal			2	
			28	Limit Sensor (2nd Feed Tray): +5V			1	
	Paper Transport IOB	CN160	1	Lift Motor (1st Feed Tray): Sensor: Paper Remaining Detection	Lift Motor (1st Feed Tray): Sensor	CN6	5	
			2	Lift Motor (1st Feed Tray): Sensor: Paper Remaining Detection: GND			4	
			3	Lift Motor (1st Feed Tray): Sensor: Paper Remaining Detection			3	
			4	Lift Motor (1st Feed Tray): Sensor: CTRL -			2	
			5	Lift Motor (1st Feed Tray): Sensor: CTRL +	Tray set Switch (1st Feed Tray)	CN7	1	
			6	Tray set Switch (1st Feed Tray): GND			2	
			7	Tray set Switch (1st Feed Tray): SW Terminal1			1	

Harness No.	Connector (From)			Signal Information	Connector (To)			Note	
	To Connector	Addr.	Pin No.		To Connector	Addr.	Pin No.		
6	BCU	CN105	1	TM/P Sensor: 3.3V	Harness No.20 D2415347	CN2	15	CN1 , CN2, CN5, CN6, CN8: With relay connector	
			2	TM/P Sensor: GND			14		
			3	TM/P Sensor: FRONT LED Drive			13		
			4	TM/P Sensor: FRONT Diffuse Reflection Sensor Output			12		
			5	TM/P Sensor: FRONT Specular Reflection Sensor			11		
			6	TM/P Sensor: 3.3V			10		
			7	TM/P Sensor: GND			9		
			8	TM/P Sensor: CENTER LED Drive			8		
			9	TM/P Sensor: CENTER Diffuse Reflection Sensor Output			7		
			10	TM/P Sensor: CENTER Specular Reflection Sensor			6		
			11	TM/P Sensor: 3.3V			5		
			12	TM/P Sensor: GND			4		
			13	TM/P Sensor: REAR LED Drive			3		
			14	TM/P Sensor: REAR Diffuse Reflection Sensor Output			2		
			15	TM/P Sensor: REAR Specular Reflection Sensor Output			1		
	Paper Transport IOB	CN166	1	Fusing Exit Solenoid: 2(PWM)	Harness No.16 D2415332	CN13	2		
			2	Fusing Exit Solenoid: 1(+24VS2)			1		
			3	Pressure Roller HP Sensor: GND	Pressure Roller HP Sensor	CN3	3		
			4	Pressure Roller HP Sensor: Signal			2		
			5	Pressure Roller HP Sensor: +5V			1		
	Image Processing IOB	CN209	1	Temperature/Humidity Sensor: Temperature FB	Temperature/Humidity Sensor	CN4	4		
			2	Temperature/Humidity Sensor : GND			3		
			3	Temperature/Humidity Sensor: Humidity FB			2		
			4	Temperature/Humidity Sensor: +3.3V			1		
			5	Developing Air Intake Fan/Right: CTRL	Developing Air Intake Fan/Right	CN5	3		
			6	Developing Air Intake Fan/Right: LOCK			2		
			7	Developing Air Intake Fan/Right: GND	1				
			8	Paper Exit Cooling /Electrical BOX Cooling/CTL Cooling Fan: CTRL	Exit Exhaust Cooling Fan	CN8	3		
			9	Paper Exit Cooling Fan: LOCK			2		
			10	Paper Exit Cooling Fan: GND			1		
	IPU	CN573	1	Main SW: ACSW_STAT_ON_O_ACSW	Main SW	CN11	2		
			2	Main SW: ACSWOFF_ACSW			1		
	7	PSU (DC)	CN917	1	PSU: DC: 24V	Interlock SW/1	CN1		1
		Image Processing	CN213	2	PSU: DC: 24V	Interlock SW/2	CN2		1
				1	Interlock Switch/1: +24VS1	Interlock SW/1	CN1		2
2				Interlock Switch/2: +24VS2	Interlock SW/2	CN2	2		
8	-	-	-	N.C.	Lattice	CN1	8		
	Image Processing IOB	CN217	1	Finisher: RXD			7		
			-	N.C.			6		
			2	Finisher: TXD			5		
			-	N.C.			4		
			-	N.C.			3		
			3	Finisher: GND			2		
			4	Finisher: GND			1		
	PSU (DC)	CN913	1	PSU: DC: GND	Lattice	CN2	9		
			2	PSU: DC: GND			8		
			3	PSU: DC: GND			7		
			4	PSU: DC: GND			6		
			5	PSU: DC: 24V			5		
			6	PSU: DC: 24V			4		
			7	PSU: DC: 24V			3		
	8	PSU: DC: 24V	2						
	-	-	-	N.C.	1				

M0AJ/M0AL Harness Pin Assignment

Harness No.	Connector (From)			Signal Information	Connector (To)			Note
	To Connector	Addr.	Pin No.		To Connector	Addr.	Pin No.	
9	Image Processing IOB	CN203	1	Toner Bottle Drive Motor: K: CTRL B	Toner Bottle Drive Motor/K	CN1	2	CN1, CN2, CN3, CN4, CN14, CN18: With relay connector
			2	Toner Bottle Drive Motor: K: +24VS1			1	
			3	Toner Bottle Drive Motor: C: CTRL B	Toner Bottle Drive Motor/C	CN2	2	
			4	Toner Bottle Drive Motor: C: +24VS1			1	
			5	Toner Bottle Drive Motor: M: CTRL B	Toner Bottle Drive Motor/M	CN3	2	
			6	Toner Bottle Drive Motor: M: +24VS1			1	
			7	Toner Bottle Drive Motor: Y: CTRL B	Toner Bottle Drive Motor/Y	CN4	2	
			8	Toner Bottle Drive Motor: Y: +24VS1			1	
			9	N.C.	-	-	-	
			10	Toner ID TAG: I2C	Toner ID TAG	CN5	4	
			11	Toner ID TAG: GND			3	
			12	Toner ID TAG: I2C			2	
			13	Toner ID TAG: Power			1	
			14	N.C.	-	-	-	
			15	Toner ID TAG: I2C	Toner ID TAG	CN6	4	
			16	Toner ID TAG: GND			3	
			17	Toner ID TAG: I2C			2	
			18	Toner ID TAG: Power			1	
			19	Toner ID TAG: I2C	Toner ID TAG	CN7	4	
			20	Toner ID TAG: GND			3	
			21	Toner ID TAG: I2C			2	
			22	Toner ID TAG: Power			1	
			23	Toner ID TAG: I2C	Toner ID TAG	CN8	4	
			24	Toner ID TAG: GND			3	
			25	Toner ID TAG: I2C			2	
			26	Toner ID TAG:Power			1	
	Image Processing IOB	CN219	1	HVP TTS: +24VS2	HVP: TTS	CN802	10	CN1, CN2, CN3, CN4, CN14, CN18: With relay connector
			2	HVP TTS: GND			9	
			3	HVP TTS: Transfer/SC Detection			8	
			4	HVP TTS: Paper Transfer (-)/Output Voltage FB			7	
			5	HVP TTS: Paper Transfer (-)/PWM			6	
			6	HVP TTS: Paper Transfer (+)/PWM			5	
			7	HVP TTS: Image Transfer/K/PWM			4	
			8	HVP TTS: Image Transfer/C/PWM			3	
			9	HVP TTS: Image Transfer/M/PWM			2	
			10	HVP TTS: Image Transfer/Y/PWM			1	
			11	N.C.	-	-	-	
			12	N.C.	-	-	-	
	Image Processing IOB	CN205	1	Toner End Sensor: K: GND	Harness No.18 D1495334	CN9	3	
			2	Toner End Sensor: K: Signal			2	
			3	Toner End Sensor: K: +5VTEK			1	
			4	Toner End Sensor: C: GND	Harness No.18 D1495334	CN10	3	
			5	Toner End Sensor: C: Signal			2	
			6	Toner End Sensor: C: +5VTEFC			1	
			7	Toner End Sensor: M: GND	Harness No.18 D1495334	CN13	3	
			8	Toner End Sensor: M: Signal			2	
			9	Toner End Sensor: M: +5VTEFC			1	
			10	Toner End Sensor: Y: GND	Harness No.18 D1495334	CN17	3	
			11	Toner End Sensor: Y: Signal			2	
			12	Toner End Sensor: Y: +5VTEFC			1	
			13	ITB Contact and Release Sensor: GND	Harness No.17 D2415333	CN14	3	
			14	ITB Contact and Release Sensor: Signal			2	
			15	ITB Contact and Release Sensor: +5V			1	
			16	Imaging Temperature Sensor: GND	Imaging Temperature Sensor	CN18	2	
			17	Imaging Temperature Sensor: Imaging Temperature Sensor/FB			1	
	Image Processing IOB	CN218	1	Bridge unit/Shift Tray/Exit Tray Left: GND	Bridge Unit Drawer	CN19	10	
			2	Bridge unit/Shift Tray/Exit Tray Left: +5V			9	
			3	Bridge unit/Shift Tray/Exit Tray Left: CBU_SS1SET_I			8	
			4	Bridge unit/Shift Tray/Exit Tray Left: CBUCVSNNS_N_I			7	
			5	Bridge unit/Shift Tray/Exit Tray Left: CBUEPSNSNS_N_I			6	
			6	Bridge unit/Shift Tray/Exit Tray Left: CBUCVMTRST_N_O			5	
			7	Bridge unit/Shift Tray/Exit Tray Left: CBUCVMTCTL_O			4	
			8	Bridge unit/Shift Tray/Exit Tray Left: GND			3	
			9	Bridge unit/Shift Tray/Exit Tray Left: +24V			2	
			-	N.C.			1	
			10	Bridge unit/Exit Tray Left: +24V		CN20	9	
			11	Bridge unit/Exit Tray Left :CBU+5VFU_I			8	
			12	Bridge unit/Exit Tray Left: CBUCVMTENA_N_O			7	
			13	Bridge unit/Exit Tray Left: CBU_SS2SET_I			6	
			14	Bridge unit/Exit Tray Left: CBUDVSLPWM_O			5	
			15	Bridge unit/Exit Tray Left: CBUCVMTCLK_O			4	
			16	Bridge unit/Exit Tray Left: CBU+24VFU_I			3	
			17	Bridge unit/Exit Tray Left: CBTOCSNSNS_I			2	
			18	Bridge unit/Exit Tray Left: CBEOCSNSNS_I			1	

Harness No.	Connector (From)			Signal Information	Connector (To)			Note
	To Connector	Addr.	Pin No.		To Connector	Addr.	Pin No.	
10	Image Processing IOB	CN222	1	Toner Bottle Supply Motor: K: A Phase	Toner Bottle Supply Motor: K	CN1	4	
			2	Toner Bottle Supply Motor: K: XA Phase			3	
			3	Toner Bottle Supply Motor: K: B Phase			2	
			4	Toner Bottle Supply Motor: K: XB Phase			1	
			5	Toner Bottle Supply Motor: C: A Phase	Toner Bottle Supply Motor: C	CN2	4	
			6	Toner Bottle Supply Motor: C: XA Phase			3	
			7	Toner Bottle Supply Motor: C: B Phase			2	
			8	Toner Bottle Supply Motor: C: XB Phase			1	
			9	Toner Bottle Supply Motor: M: A Phase	Toner Bottle Supply Motor: M	CN3	4	
			10	Toner Bottle Supply Motor: M: XA Phase			3	
			11	Toner Bottle Supply Motor: M: B Phase			2	
			12	Toner Bottle Supply Motor: M: XB Phase			1	
			13	Toner Bottle Supply Motor: Y: A Phase	Toner Bottle Supply Motor: Y	CN4	4	
			14	Toner Bottle Supply Motor: Y: XA Phase			3	
			15	Toner Bottle Supply Motor: Y: B Phase			2	
			16	Toner Bottle Supply Motor: Y: XB Phase			1	
11	Image Processing IOB	CN200	1	Drum Motor/FC:Peak Hold	Drum Motor/FC	CN1	10	CN9, CN13: With relay connector
			2	Drum Motor/FC:Maker			9	
			3	Drum Motor/FC:FG			8	
			4	Drum Motor/FC:Direction			7	
			5	Drum Motor/FC:PWM			6	
			6	Drum Motor/FC:BRK			5	
			7	Drum Motor/FC:GND			4	
			8	Drum Motor/FC:GND			3	
			9	Drum Motor/FC: +24VS1			2	
			10	Drum Motor/FC: +24VS1			1	
			11	Development Motor/FC:Peak Hold	Development Motor/FC	CN2	10	
			12	Development Motor/FC:Maker			9	
			13	Development Motor/FC:FG			8	
			14	Development Motor/FC:Direction			7	
			15	Development Motor/FC:PWM			6	
			16	Development Motor/FC:BRK			5	
			17	Development Motor/FC:GND			4	
			18	Development Motor/FC:GND			3	
			19	Development Motor/FC:+24VS1			2	
			20	Development Motor/FC: +24VS1			1	
			21	Development Motor/K:Peak Hold	Development Motor/K	CN4	10	
			22	Development Motor/K:Maker			9	
			23	Development Motor/K:FG			8	
			24	Development Motor/K:Direction			7	
			25	Development Motor/K:PWM			6	
			26	Development Motor/K:BRK			5	
			27	Development Motor/K:GND			4	
			28	Development Motor/K:GND			3	
			29	Development Motor/K:+24VS1			2	
			30	Development Motor/K:+24VS1			1	
			31	Image Transfer Motor/K:Peak Hold	Image Transfer Motor	CN7	10	
			32	Image Transfer Motor/K:Maker			9	
			33	Image Transfer Motor/K:FG			8	
			34	Image Transfer Motor/K:Direction			7	
			35	Image Transfer Motor/K:PWM			6	
			36	Image Transfer Motor/K:BRK			5	
			37	Image Transfer Motor/K:GND			4	
			38	Image Transfer Motor/K:GND			3	
			39	Image Transfer Motor/K:++24VS1			2	
			40	Image Transfer Motor/K:++24VS1			1	

M0AJ/M0AL Harness Pin Assignment

Harness No.	Connector (From)			Signal Information	Connector (To)			Note
	To Connector	Addr.	Pin No.		To Connector	Addr.	Pin No.	
11	Image Processing IOB	CN201	1	N.C.	-	-	-	CN9, CN13: With relay connector
			2	N.C.	-	-	-	
			3	Waste toner capacity sensor: GND	Harness No.15 D1495330	CN5	3	
			4	Waste toner capacity sensor: Signal			2	
			5	Waste toner capacity sensor: +5V			1	
			6	Waste toner bottle set sensor: GND	Waste toner bottle set sensor	CN3	2	
			7	Waste toner bottle set sensor:Signal			1	
			8	Paper Transfer Contact and Release Sensor:GND	Paper Transfer Contact and Release Sensor	CN11	3	
			9	Paper Transfer Contact and Release Sensor:Signal			2	
			10	Paper Transfer Contact and Release Sensor:+5V			1	
			11	Paper Transfer Contact and Release Motor:CTRL2	Paper Transfer Contact and Release Motor	CN12	2	
			12	Paper Transfer Contact and Release Motor:CTRL1			1	
			13	N.C.	-	-	-	
	Image Processing IOB	CN204	1	N.C.	Harness No.13 D1495328	CN13	16	
			2	N.C.			15	
			3	PCU: GND			14	
			4	PCU: HST/K:Output			13	
			5	PCU: HST:Power			12	
			6	PCU: HST/K:SEL			11	
			7	PCU: HST:SDA			10	
			8	PCU: HST:SCL			9	
			9	N.C.			8	
			10	N.C.			7	
			11	PCU: GND			6	
			12	PCU: HST/C:Output			5	
			13	PCU: HST:Power			4	
			14	PCU: HST/C:SEL			3	
			15	PCU: HST:SDA			2	
			16	PCU: HST:SCL			1	
			17	N.C.			32	
			18	N.C.			31	
			19	PCU: GND			30	
			20	PCU: HST/M:Output			29	
			21	PCU: HST:Power			28	
			22	PCU: HST/M:SEL			27	
			23	PCU: HST:SDA			26	
			24	PCU: HST:SCL			25	
			25	N.C.			24	
			26	N.C.			23	
			27	PCU: GND			22	
			28	PCU: HST/Y:Output			21	
			29	PCU: HST:Power			20	
			30	PCU: HST/Y:SEL			19	
			31	PCU: HST:SDA			18	
			32	PCU:HST:SCL			17	

Harness No.	Connector (From)			Signal Information	Connector (To)			Note
	To Connector	Addr.	Pin No.		To Connector	Addr.	Pin No.	
11	Image Processing IOB	CN211	1	HVP CB: HVP/Development/DC/Y/PWM	HVP CB	CN800	20	CN9, CN13: With relay connector
			2	HVP CB: HVP/Development/DC/M/PWM			19	
			3	HVP CB: HVP/Development/DC/C/PWM			18	
			4	HVP CB: HVP/Development/DC/K/PWM			17	
			5	HVP CB: HVP/Charge/DC/K/PWM			16	
			6	HVP CB: HVP/Charge/DC/C/PWM			15	
			7	HVP CB: HVP/Charge/DC/M/PWM			14	
			8	HVP CB: HVP/Charge/DC/Y/PWM			13	
			9	HVP CB: HVP/Charge/AC/K/PWM			12	
			10	HVP CB: HVP/Charge/AC/C/PWM			11	
			11	HVP CB: HVP/Charge/AC/M/PWM			10	
			12	HVP CB: HVP/Charge/AC/Y/PWM			9	
			13	HVP CB: HVP/Charge/AC/Y/CLOCK			8	
			14	HVP CB: HVP/Charge Development/SC Detection			7	
			15	HVP CB: HVP/Charge/AC/K/Output Voltage FB			6	
			16	HVP CB: HVP/Charge/AC/C/Output Voltage FB			5	
			17	HVP CB: HVP/Charge/AC/M/Output Voltage FB			4	
			18	HVP CB: HVP/Charge/AC/Y/Output Voltage FB			3	
			19	HVP CB:GND			2	
			20	HVP CB:+24VS2			1	
	Image Processing IOB	CN216	1	Toner Supply Cooling/Drive Cooling/Exhaust Fan: CTRL	Harness No.12 D1495327	CN8	3	
			2	Exhaust Fan: LOCK			2	
			3	Exhaust Fan: GND			1	
			4	Exit Paper Cooling/Electrical BOX Cooling/CTL Cooling Fan:CTRL	Controller Box Cooling Fan	CN9	3	
			5	Controller Box Cooling Fan: LOCK			2	
			6	Controller Box Cooling Fan: GND			1	
			7	Toner Supply Cooling/Drive Cooling/Exhaust Fan: CTRL	Drive Cooling Fan	CN14	3	
			8	Drive Cooling Fan:LOCK			2	
			9	Drive Cooling Fan:GND			1	
			10	Toner Supply Cooling/Drive Cooling/Exhaust Fan:CTRL	Toner Supply Cooling Fan	CN10	3	
			11	Toner Supply Cooling Fan: LOCK			2	
			12	Toner Supply Cooling Fan: GND			1	
			13	N.C.	-	-	-	
			14	N.C.	-	-	-	
			15	N.C.	-	-	-	
12	Harness No.11 D2425326	CN1	1	Exhaust Fan:CTRL	Exhaust Fan	CN2	3	CN1,CN2: With relay connector
			2	Exhaust Fan:LOCK			2	
			3	Exhaust Fan:GND			1	

MOAJ/MOAL Harness Pin Assignment

Harness No.	Connector (From)			Signal Information	Connector (To)			Note			
	To Connector	Addr.	Pin No.		To Connector	Addr.	Pin No.				
13	Harness No.11 D2425326	CN1	1	PCU: Remaining Amount Sensor/K	Harness No.14 M0AJ5329	CN2	16	CN2: With relay connector			
			2	PCU: +24VS2			15				
			3	PCU: HST_SCL			14				
			4	PCU: HST_SDA			13				
			5	PCU: HST Sensor/K/PWM			12				
			6	PCU: HST Sensor/+5V			11				
			7	PCU: HST Sensor/K/FB			10				
			8	PCU: GND			9				
			9	PCU: Remaining Amount Sensor/C			8				
			10	PCU: +24VS2			7				
			11	PCU: HST_SCL			6				
			12	PCU: HST_SDA			5				
			13	PCU: HST Sensor/C/PWM			4				
			14	PCU: HST Sensor/+5V			3				
			15	PCU: HST Sensor/C/FB			2				
			16	PCU: GND			1				
			17	PCU: Remaining Amount Sensor/M			32				
			18	PCU: +24VS2			31				
			19	PCU: HST_SCL			30				
			20	PCU: HST_SDA			29				
			21	PCU: HST Sensor/M/PWM			28				
			22	PCU: HST Sensor/+5V			27				
			23	PCU: HST Sensor/M/FB			26				
			24	PCU: GND			25				
			25	PCU: Remaining Amount Sensor/Y			24				
			26	PCU: +24VS2			23				
			27	PCU: HST_SCL			22				
			28	PCU: HST_SDA			21				
			29	PCU: HST Sensor/Y/PWM			20				
			30	PCU: HST Sensor/+5V			19				
			31	PCU: HST Sensor/Y/FB			18				
			32	PCU: GND			17				
14	Harness No.13 D1495328	CN1	1	N.C.	-	-	-	CN2,CN3,CN4,CN5: With relay connector			
			2	N.C.	-	-	-				
			3	PCU: GND	-	-	6				
			4	PCU: HST/K:Output	-	-	5				
			5	PCU: HST:Power	Harness No.66 M0AJ3174	CN2	4				
			6	PCU: HST/K:SEL			3				
			7	PCU: HST:SDA			2				
			8	PCU: HST:SCL			1				
			9	N.C.			-		-	-	
			10	N.C.			-		-	-	
			11	PCU: GND	Harness No.66 M0AJ3174	CN3	6				
			12	PCU: HST/C:Output			5				
			13	PCU: HST:Power			4				
			14	PCU: HST/C:SEL			3				
			15	PCU: HST:SDA			2				
			16	PCU: HST:SCL			1				
			17	N.C.	-	-	-				
			18	N.C.	-	-	-				
			19	PCU: GND	Harness No.66 M0AJ3174	CN4	6				
			20	PCU: HST/M:Output			5				
			21	PCU: HST:Power			4				
			22	PCU: HST/M:SEL			3				
			23	PCU: HST:SDA			2				
			24	PCU: HST:SCL			1				
			25	N.C.	-	-	-				
			26	N.C.	-	-	-				
			27	PCU: GND	Harness No.66 M0AJ3174	CN5	6				
			28	PCU: HST/Y:Output			5				
			29	PCU: HST:Power			4				
			30	PCU: HST/Y:SEL			3				
			31	PCU: HST:SDA			2				
			32	PCU:HST:SCL			1				
15	Harness No.11 D2425326	CN1	1	Waste toner capacity sensor: GND	Waste Toner Capacity Detection Sensor	CN2	3	CN1: With relay connector			
			2	Waste toner capacity sensor: Waste Toner Capacity Detection Sensor			2				
			3	Waste toner capacity sensor: +5V			1				
16	Harness No.6 D2425308	CN1	1	Fusing Exit Drive Solenoid Terminal2 (PWM)	Fusing Exit Drive Solenoid	CN2	3				
			2	N.C.			2				
			3	Fusing Exit Drive Solenoid Terminal2 (+24VS2)			1				
17	Harness No.9 D2415324	CN1	1	ITB Contact and Release Sensor: GND	ITB Contact and Release Sensor	CN2	3				
			2	ITB Contact and Release Sensor: Signa			2				
			3	ITB Contact and Release Sensor: +5v			1				
18	Harness No.9 D2415324	CN1	1	Toner End Sensor:GDN	Toner End Sensor	CN2	3	CN2: With relay connector			
			2	Toner End Sensor:Signal			2				
			3	Toner End Sensor:+5VTEK			1				
19	BCU	CN101	1	IPU: GND	IPU	CN575	22				
			2	IPU: 5V			21				
			3	IPU: GMAC1/GAVD Sync Serial TX Data			20				
			4	IPU: GMAC1/GAVD Sync Serial RX Data			19				
			5	IPU: GMAC1/GAVD Sync Serial CLOCK			18				
			6	IPU: GMAC1/GAVD Sync Serial CS0			17				
			7	IPU: GMAC2 Sync Serial TX Data			16				
			8	IPU: GMAC2 Sync Serial RX Data			15				
			9	IPU: Memory to plotter Reset Signal			14				
			10	IPU: ADF Model Identification Signal			13				
			11	IPU: Engine OFF: Elapsed Time2			12				
			12	IPU: Scanner to Memory Reset Signal			11				
			13	IPU: GMAC2 Sync Serial CLOCK			10				
			14	IPU: GMAC2 Sync Serial CS0			9				
			15	IPU: ADF TX Data			8				
			16	IPU: ADF RX Data			7				
			17	IPU: IPU Interruption			6				
			18	IPU: Engine OFF: Elapsed Time0			5				
			19	IPU: Engine OFF: Elapsed Time1			4				
			20	IPU: L: Normal Start/H: Awaiting Rapi Opening			3				
			21	IPU: Full Operation Mode Detection Signal			2				
			22	IPU: IPU Start Detection Signal			1				
			20	Harness No.6 M0AJ5308	CN1	1	TM/P Sensor: 3.3V	TM/P Sensor: FRONT	CN2	5	
						2	TM/P Sensor: GND			4	
						3	TM/P Sensor: FRONT LED Drive			3	
						4	TM/P Sensor: FRONT Diffuse Reflection Sensor Output			2	
						5	TM/P Sensor: FRONT Specular Reflection Sensor Output	TM/P Sensor: CENTER	CN3	1	
						6	TM/P Sensor: 3.3V			5	
						7	TM/P Sensor: GND			4	
						8	TM/P Sensor: CENTER LED Drive			3	
						9	TM/P Sensor: CENTER Diffuse Reflection Sensor Output	TM/P Sensor: REAR	CN4	2	
						10	TM/P Sensor: CENTER Specular Reflection Sensor Output			1	
						11	TM/P Sensor: 3.3V			5	
						12	TM/P Sensor: GND			4	
						13	TM/P Sensor: REAR LED Drive	Fusing Drawer Harness No.80 D2414312(100V) or Harness No.81 D2414313(200V)	CN6	3	
						14	TM/P Sensor: REAR Diffuse Reflection Sensor			2	
						15	TM/P Sensor: REAR Specular Reflection Sensor Output			1	
			-	N.C.	Thermopile (Edge)	CN3	11				
			A1	Set Detection (P): GND			10				
			A2	Set Detection (C): GND			9				
			A3	Set Detection: NA			8				
			A4	Set Detection: EU	Thermopile (Center)	CN3	7				
			A5	Set Detection : Special Paper			6				
			A6	NewUnit Detection Fuse			5				
			A7	NewUnit Detection Fuse: GND			4				
			-	N.C.	Thermopile (Exit): GND	CN2	3				
			-	N.C.			2				
			-	N.C.			1				
			-	N.C.	Thermopile (Exit): +5V	CN8	4				
			A8	Thermopile (Edge): +5V			3				
			A9	Thermopile (Edge): GND			2				
			A10	Thermopile (Edge): FB	Thermopile (Center): GND	CN5	1				
			-	N.C.			4				
			A11	Thermopile (Center): +5V			3				
			A12	Thermopile (Center): GND			2				
			A13	Thermopile (Center): FB	Thermopile (Exit): Sensor Signal	CN2	1				
			A14	Thermopile (Exit): GND			3				
			A15	Thermopile (Exit): Sensor Signal			2				
			A16	Thermopile (Exit): +5V			1				
			A17	N.C.	Positioning Sensor/1	CN8	-				
			B1	N.C.			-				
			B2	N.C.			-				
			B3	Positioning Sensor/1:GND			-				
			B4	Positioning Sensor/1:Sensor Signal	Fusing Shield Drive Motor	CN11	3				
			B5	Positioning Sensor/1:+5V			2				
			-	N.C.			1				
			B6	Non-Contact Thermistor (Edge): Detection	Fusing Drawer Harness No.80 M0AJ4312(100V) or Harness No.81 M0AJ4313(200V)	CN7	13				
			B7	Non-Contact Thermistor (Edge): Compensation			12				
			B8	Non-Contact Thermistor (Edge): GND			11				
B9	Non-Contact Thermistor (Center): Detection	Fusing Drawer Harness No.80 M0AJ4312(100V) or Harness No.81 M0AJ4313(200V)	CN7	10							
B10	Non-Contact Thermistor (Center): Compensation			9							
B11	Non-Contact Thermistor (Center): GND			8							
B12	Pressure Thermistor: Expanded End: FB	Pressure Thermistor: Expanded End: GND	CN7	7							
B13	Pressure Thermistor: Expanded End: GND			6							
B14	Pressure Thermistor: End: FB			5							
B15	Pressure Thermistor: End: GND	Pressure Thermistor: Center: FB	CN7	4							
B16	Pressure Thermistor: Center: FB			3							
B17	Pressure Thermistor: Center: GND			2							
1	Fusing Shield Drive Motor: XB Phase (B3)	Fusing Shield Drive Motor	CN11	1							
2	Fusing Shield Drive Motor: B Phase (B1)			4							
3	Fusing Shield Drive Motor: A Phase (A1)			6							
4	Fusing Shield Drive Motor: XA Phase (A3)	Fusing Drawer Harness No.80 M0AJ4312(100V) or Harness No.81 M0AJ4313(200V)	CN7	2							
-	GND			1							
1	HT1/L			1G							
2	HT2/N	Fusing Drawer Harness No.80 M0AJ4312(100V) or Harness No.81 M0AJ4313(200V)	CN7	4							
3	N.C.			6							
4	HT1/L(reserve)			5							
5	HT2/L			2							
				3							

M0AJ/M0AL Harness Pin Assignment

Harness No.	Connector (From)			Signal Information	Connector (To)			Note
	To Connector	Addr.	Pin No.		To Connector	Addr.	Pin No.	
24	INLET	INLET	L	AC IN_L	PSU (AC)	T900	-	
			N	AC IN_N	PSU (AC)	T901	-	
			E	EARTH	Screw	T1	-	
25	PSU (AC)	CN988	1	PSU (AC): AC_L_5V_24V	PSU (DC)	CN901	1	
			2	N.C.			2	
			3	PSU (AC): AC_N_5V_24V			3	
26	PSU (AC)	CN989	1	PCU Heater_N	PCU Heater	CN1	2	
			2	Paper Feed Heater_N	Paper Feed Heater	CN2	2	
			3	Bank Heater_N	Bank Feed Heater	CN3	2	
			4	PCU Heater_L	PCU Heater	CN1	1	
			5	Paper Feed Heater_L	Paper Feed Heater	CN2	1	
			6	Bank Heater_L	Bank Feed Heater	CN3	1	
27	Harness No.46 D1495392	CN1	1	Paper Feed Heater_L	Paper Feed Heater	CN2	1	
			2	Paper Feed Heater_N			2	
28	PSU (AC)	CN990	1	Anti-condensation Heater SW_L	Anti-condensation Heater SW	CN1	1	
			2	Anti-condensation Heater SW_N			1	
29	HVP: TTS		T1	- Image Transfer T1: Y	Image Transfer		T6	-
			T2	- Image Transfer T1: M			T7	-
			T3	- Image Transfer T1: C			T8	-
			T4	- Image Transfer T1: K			T9	-
			T5	- Paper Transfer T2			T10	-
30	BCU	CN100	1	FFC Connection Detection	IPU	CN556	50	
			2	GND			49	
			3	IPU Read Write Signal (L: Write)			48	
			4	IPU Read Signal			47	
			5	IPU Write Signal			46	
			6	CDS Chip Select			45	
			7	Macaron1 Chip Select			44	
			8	Macaron2 Chip Select			43	
			9	GND			42	
			10	GND			41	
			11	GND			40	
			12	IPU Data Path16			39	
			13	IPU Data Path17			38	
			14	IPU Data Path18			37	
			15	IPU Data Path19			36	
			16	IPU Data Path20			35	
			17	IPU Data Path21			34	
			18	IPU Data Path22			33	
			19	IPU Data Path23			32	
			20	GND			31	
			21	IPU Data Path24			30	
			22	IPU Data Path25			29	
			23	IPU Data Path26			28	
			24	IPU Data Path27			27	
			25	IPU Data Path28			26	
			26	IPU Data Path29			25	
			27	IPU Data Path30			24	
			28	IPU Data Path31			23	
			29	GND			22	
			30	IPU Addr. Path1			21	
			31	IPU Addr. Path2			20	
			32	IPU Addr. Path3			19	
			33	IPU Addr. Path4			18	
			34	IPU Addr. Path5			17	
			35	IPU Addr. Path6			16	
			36	IPU Addr. Path7			15	
			37	IPU Addr. Path8			14	
			38	IPU Addr. Path9			13	
			39	GND			12	
			40	IPU Addr. Path10			11	
			41	IPU Addr. Path11			10	
			42	IPU Addr. Path12			9	
			43	IPU Addr. Path13			8	
			44	IPU Addr. Path14			7	
			45	IPU Addr. Path15			6	
			46	IPU Addr. Path16			5	
			47	IPU Addr. Path17			4	
			48	IPU Addr. Path18			3	
			49	GND			2	
			50	FFC Connection Detection			1	

Harness No.	Connector (From)		Pin No.	Signal Information	Connector (To)			Note
					To Connector	Addr.	Pin No.	
31	Image Processing IOB	CN221	1	FFC Connection Detection	Paper Transport IOB		40	
			2	IOB Write			39	
			3	IOB Read			38	
			4	IOB Chip Cell			37	
			5	GND			36	
			6	GND			35	
			7	Data Path			34	
			8	Data Path			33	
			9	Data Path			32	
			10	Data Path			31	
			11	Data Path			30	
			12	Data Path			29	
			13	Data Path			28	
			14	Data Path			27	
			15	GND			26	
			16	Addr. Path			25	
			17	Addr. Path			24	
			18	Addr. Path			23	
			19	Addr. Path			22	
			20	Addr. Path			21	
			21	Addr. Path			20	
			22	Addr. Path			19	
			23	Addr. Path			18	
			24	Addr. Path			17	
			25	Addr. Path			16	
			26	Addr. Path			15	
			27	Addr. Path			14	
			28	Addr. Path			13	
			29	Addr. Path			12	
			30	Addr. Path			11	
			31	Addr. Path			10	
			32	Addr. Path			9	
			33	Addr. Path			8	
			34	Addr. Path			7	
			35	Addr. Path			6	
			36	IOB Interruption			5	
			37	GND			4	
			38	IOB Start Check			3	
			39	Power On Reset			2	
			40	FFC Connection Detection			1	

M0AJ/M0AL Harness Pin Assignment

Harness No.	Connector (From)			Signal Information	Connector (To)			Note
	To Connector	Addr.	Pin No.		To Connector	Addr.	Pin No.	
32	BCU	CN103	1	FFC Connection Detection	Image Processing IOB	CN214	50	
			2	ID-TAG SDA Signal			49	
			3	ID-TAG SCL Signal			48	
			4	HST Sensor SDA Signal			47	
			5	HST Sensor SCL Signal			46	
			6	GND			45	
			7	Power On Reset Signal			44	
			8	IOB Start Detection Signal			43	
			9	GND			42	
			10	IOB2 Interruption			41	
			11	IOB1 Interruption			40	
			12	IOB Addr.20			39	
			13	IOB Addr.19			38	
			14	IOB Addr.18			37	
			15	IOB Addr.17			36	
			16	IOB Addr.16			35	
			17	IOB Addr.15			34	
			18	IOB Addr.14			33	
			19	IOB Addr.13			32	
			20	IOB Addr.12			31	
			21	IOB Addr.11			30	
			22	IOB Addr.10			29	
			23	IOB Addr.9			28	
			24	IOB Addr.8			27	
			25	GND			26	
			26	IOB Addr.7			25	
			27	IOB Addr.6			24	
			28	IOB Addr.5			23	
			29	IOB Addr.4			22	
			30	IOB Addr.3			21	
			31	IOB Addr.2			20	
			32	IOB Addr.1			19	
			33	IOB Addr.0			18	
			34	GND			17	
			35	IOB Data.31			16	
			36	IOB Data.30			15	
			37	IOB Data.29			14	
			38	IOB Data.28			13	
			39	IOB Data.27			12	
			40	IOB Data.26			11	
			41	IOB Data.25			10	
			42	IOB Data.24			9	
			43	GND			8	
			44	GND			7	
			45	IOB2 Chip Select			6	
			46	IOB1 Chip Select			5	
			47	IOB Read Write Signal(L:Write)			4	
			48	IOB Read Signal			3	
			49	IOB Write Strobe Signal			2	
			50	FFC Connection Detection			1	
33	Harness No. 9 M0AJ5324	CN1	1	Imaging New Unit Detection:GND	Screw	T1		CN1: With relay connector
			2	Imaging New Unit Detection:Signal	Screw	T2		
34	Harness No. 2 M0AJ5301	CN1	1	N.C.	Harness No. 34 M0AJ4545	CN2	-	CN2,CN4: With relay connector
			2	Reverse Open/Close SW: Signal			2	
			3	Reverse Open/Close SW: GND			1	
		CN3	1	4BIN: UART RX	4BIN	CN4	13	
			2	N.C.			12	
			3	4BIN: UART TX			11	
			4	4BIN: +5V			10	
			5	4BIN: +5V			9	
			6	4BIN: GND			8	
			7	4BIN: GND			7	
			8	4BIN: GND			6	
			9	4BIN: GND			5	
			10	4BIN: GND			4	
			11	4BIN: +24V			3	
			12	4BIN: +24V			2	
			13	4BIN: +24V			1	

Harness No.	Connector (From)	Addr.	Pin No.	Signal Information	Connector (To)			Note
					To Connector	Addr.	Pin No.	
55	Harness No.1 D2425300	CN1	1	Registration Sensor: GND	Registration Sensor	CN2	3	CN1: With relay connector
			2	Registration Sensor: Sensor Signal			2	
			3	Registration Sensor: +5V			1	
56	Harness No.1 D2425300 Harness No.5 D2415307	CN1	1	Pick-up Solenoid: Terminal1 (+24VS2)	N.C.	CN6	2	
			2	Pick-up Solenoid: Terminal2 (PWM)			1	
			3	Paper Feed Sensor: GND			3	
			4	Paper Feed Sensor: Sensor Signal	Paper Feed Sensor	CN2	2	
			5	Paper Feed Sensor: +5V			1	
			6	Transport Sensor: GND	Transport Sensor	CN3	3	
			7	Transport Sensor: Sensor Signal			2	
			8	Transport Sensor: +5V			1	
			9	Paper End Sensor: GND	Paper End Sensor(Feed Tray)	CN4	3	
			10	Paper End Sensor: Sensor Signal			2	
			11	Paper End Sensor: +5V			1	
			12	Limit Sensor: GND	Limit Sensor(Feed Tray)	CN5	3	
			13	Limit Sensor: Sensor Signal			2	
			14	Limit Sensor: +5V			1	
57	Harness No.1 D2425300	CN1	1	PTR Open/Close LED: CTRL	PTR Open/Close LED	CN3	2	CN1: With relay connector
			2	PTR Open/Close LED: +5V			1	
			3	Fusing Entrance Sensor: GND	Fusing Entrance Sensor	CN2	3	
			4	Fusing Entrance Sensor: Sensor Signal			2	
58	Harness No.1 D2425300	CN1	5	Fusing Entrance Sensor: +5V	By-pass/Duplex Motor	CN3	1	
			1	By-pass/Duplex Motor: ENC: A Phase			8	
			2	By-pass/Duplex Motor: ENC: B Phase			7	
			3	By-pass/Duplex Motor: +5V			6	
			4	By-pass/Duplex Motor: CW/CCW (Low)			5	
			5	By-pass/Duplex Motor: PWM			4	
			6	By-pass/Duplex Motor: BRK (Low)			3	
			7	By-pass/Duplex Motor: GND			2	
			8	By-pass/Duplex Motor: +24VS2			1	
			9	Duplex Entrance Sensor: GND	Harness No.59 D2414698	CN4	5	
			10	Duplex Entrance Sensor: Sensor Signal			4	
			11	Duplex Entrance Sensor: +5V			3	
			12	Duplex Exit Sensor: GND	Duplex Exit Sensor	CN6	3	
			13	Duplex Exit Sensor: Sensor Signal			2	
			14	Duplex Exit Sensor: +5V			1	
			15	Duplex Unit Open/Close Sensor: SW Terminal2	Duplex Unit Open/Close Sensor	CN5	2	
			16	Duplex Unit Open/Close Sensor: SW Terminal1			1	
			17	N.C.			-	
59	Harness No.58 D2414696	CN1	18	N.C.	-	-	-	
			1	Duplex Entrance Sensor: GND	Duples Entrance Sensor	CN2	3	
			2	Duplex Entrance Sensor: Sensor Signal			2	
			3	Duplex Entrance Sensor: +5V			1	
			4	N.C.	-	-	-	
60	Harness No.1 D2425300	CN1	5	N.C.	Harness No.61 D2412659	CN2	-	
			1	By-pass Pick-up Solenoid: Terminal 2 (PWM)			5	
			2	By-pass Pick-up Solenoid: Terminal 1 (+24VS2)			4	
			3	By-pass Paper End Sensor: GND			3	
			4	By-pass Paper End Sensor: Sensor Signal			2	
			5	By-pass Paper End Sensor: +5V	Harness No.62 D2412669	CN3	1	
			6	By-pass Paper Length Sensor: SW Terminal3			9	
			7	By-pass Paper Length Sensor: SW Terminal5			8	
			8	By-pass Paper Length Sensor: SW Terminal4			7	
			9	By-pass Paper Length Sensor: COM Terminal			6	
			10	By-pass Paper Length Sensor: SW Terminal1			5	
			11	By-pass Paper Length Sensor: SW Terminal2			4	
			12	By-pass Paper Size Sensor: GND			3	
			13	By-pass Paper Size Sensor: Sensor Signal			2	
			14	By-pass Paper Size Sensor: +5V			1	
61	Harness No.60 D2412661	CN1	1	By-pass Pick-up Solenoid: Terminal 2 (PWM)	By-pass Pick-up Solenoid	CN2	3	CN1: With relay connector
			-	N.C.			2	
			2	By-pass Pick-up Solenoid: Terminal 1 (+24VS2)	By-pass Paper End Sensor	CN3	1	
			3	By-pass Paper End Sensor: GND			3	
			4	By-pass Paper End Sensor: Sensor Signal			2	
			5	By-pass Paper End Sensor: +5V			1	

M0AJ/M0AL Harness Pin Assignment

Harness No.	Connector (From)			Signal Information	Connector (To)			Note
	To Connector	Addr.	Pin No.		To Connector	Addr.	Pin No.	
62	Harness No.60 D2412661	CN1	1	By-pass Paper Length Sensor: SW Terminal3	By-pass Paper Length Sensor	CN2	8	CN1: With relay connector
			2	By-pass Paper Length Sensor: SW Terminal5			7	
			3	By-pass Paper Length Sensor: SW Terminal4			6	
			-	N.C.			5	
			4	By-pass Paper Length Sensor: COM Terminal			4	
			5	By-pass Paper Length Sensor: SW Terminal1			3	
			6	By-pass Paper Length Sensor: SW Terminal2			2	
			7	By-pass Paper Size Sensor: GND	By-pass Paper Size Sensor	CN3	3	
			8	By-pass Paper Size Sensor: Sensor Signal			2	
			9	By-pass Paper Size Sensor: +5V			1	
63	Harness No.1 D2425300	CN1	1	Paper Exit Solenoid: Terminal1 (+24VS2)	Exit Junction Solenoid	CN2	2	CN2, CN3: With relay connector
			2	Paper Exit Solenoid: Terminal2 (PWM)			1	
			3	Inversion Sensor: GND	Inversion Sensor	CN4	3	
			4	Inversion Sensor: Sensor Signal			2	
			5	Inversion Sensor: +5V			1	
			6	Paper Exit Sensor: GND	Exit Sensor	CN5	3	
			7	Paper Exit Sensor: Sensor Signal			2	
			8	Paper Exit Sensor: +5V			1	
			9	Exit Tray Full Detection Sensor: GND	Exit Tray Full Detection Sensor	CN6	3	
			10	Exit Tray Full Detection Sensor: Sensor Signal			2	
			11	Exit Tray Full Detection Sensor: +5V			1	
			12	Inversion Motor: XB Phase	Inversion Motor	CN3	4	
			13	Inversion Motor: B Phase			3	
			14	Inversion Motor: XA Phase			2	
			15	Inversion Motor: A Phase			1	
66	Harness No.14 M0AJ5329	CN1	1	PCU: GND	HST	CN2	6	
			2	PCU: HST:Output			5	
			3	PCU: HST:Power			4	
			4	PCU: HST:SEL			3	
			5	PCU: HST:SDA			2	
			6	PCU: HST:SCL			1	
68	IPU	CN579	8	DATA3_K_N	Harness No.72 D2425236	CN1	1	CN1,CN2,CN3,CN4: With relay connector
			7	DATA3_K			2	
			6	DATA4_K_N			3	
			5	DATA4_K			4	
			4	DATA1_K_N			5	
			3	DATA1_K			6	
			2	DATA2_K_N			7	
			1	DATA2_K			8	
			9	DATA2_C_N			9	
	IPU	CN580	8	DATA2_C			10	
			7	DATA1_C_N			11	
			6	DATA1_C			12	
			5	DATA4_C_N			13	
			4	DATA4_C			14	
			3	DATA3_C_N			15	
			2	DATA3_C			16	
			1	N.C.			-	

Harness No.	Connector (From)		Pin No.	Signal Information	Connector (To)			Note
	To Connector	Addr.			To Connector	Addr.	Pin No.	
68	IPU	CN583	17	N.C.	Harness No.72 D2425236	CN1	-	CN1,CN2,CN3,CN4: With relay connector
			16	GND			17	
			15	GND			18	
			14	N.C.			-	
			13	+5VS			19	
			12	GND			20	
			11	DROPEN			21	
			10	ERR_KC_N			22	
			9	APC_KC_N			23	
			8	N.C.			-	
			7	SYCLK_KC			24	
			6	SYCLK_KC_N			25	
			5	SYDI_KC			26	
			4	SYDO_KC			27	
			3	+5VS			28	
			2	+5VS			29	
			-	N.C.			30	
			1	GND			31	
			-	N.C.			32	
	IPU	CN582	11	DATA2_Y	Harness No.72 D2425236	CN2	1	
			10	DATA2_Y_N			2	
			9	DATA1_Y			3	
			8	DATA1_Y_N			4	
			7	DATA4_Y			5	
			6	DATA4_Y_N			6	
			5	DATA3_Y			7	
			4	DATA3_Y_N			8	
			3	N.C.			-	
			2	N.C.			-	
			1	N.C.			-	
			10	DATA3_M			9	
			9	DATA3_M_N			10	
			8	DATA4_M			11	
			7	DATA4_M_N			12	
	IPU	CN581	6	DATA1_M			13	
			5	DATA1_M_N			14	
			4	DATA2_M			15	
			3	DATA2_M_N			16	
			2	N.C.			17	
			1	N.C.			-	
			14	GND			18	
			13	GND			19	
			12	+5VS			20	
			11	N.C.			21	
			10	GND			22	
			9	SYCLK_YM			23	
			8	SYCS_YM_N			24	
			7	SYDI_YM			25	
			6	SYDO_YM			26	
			5	ERR_YM_N			27	
			4	APC_YM_N			28	
			3	+5VS			29	
			2	+5VS			30	
			-	N.C.			31	
			-	N.C.			32	
			-	N.C.			33	
	IPU	CN584	1	GND			34	
			11	Y Sync GND	Harness No.71 D2425235	CN3	1	
			10	Y Sync VCC			2	
			9	Y Sync Signal			3	
			8	K Sync GND			4	
			7	K Sync VCC			5	
			6	K Sync Signal			6	
			5	Polygon Mirror Motor CLOCK			7	
			4	Polygon Mirror Motor READY			8	
			3	Polygon Mirror Motor ON			9	
			2	Polygon Mirror Motor GND			10	
			1	Polygon Mirror Motor DV24V			11	

M0AJ/M0AL Harness Pin Assignment

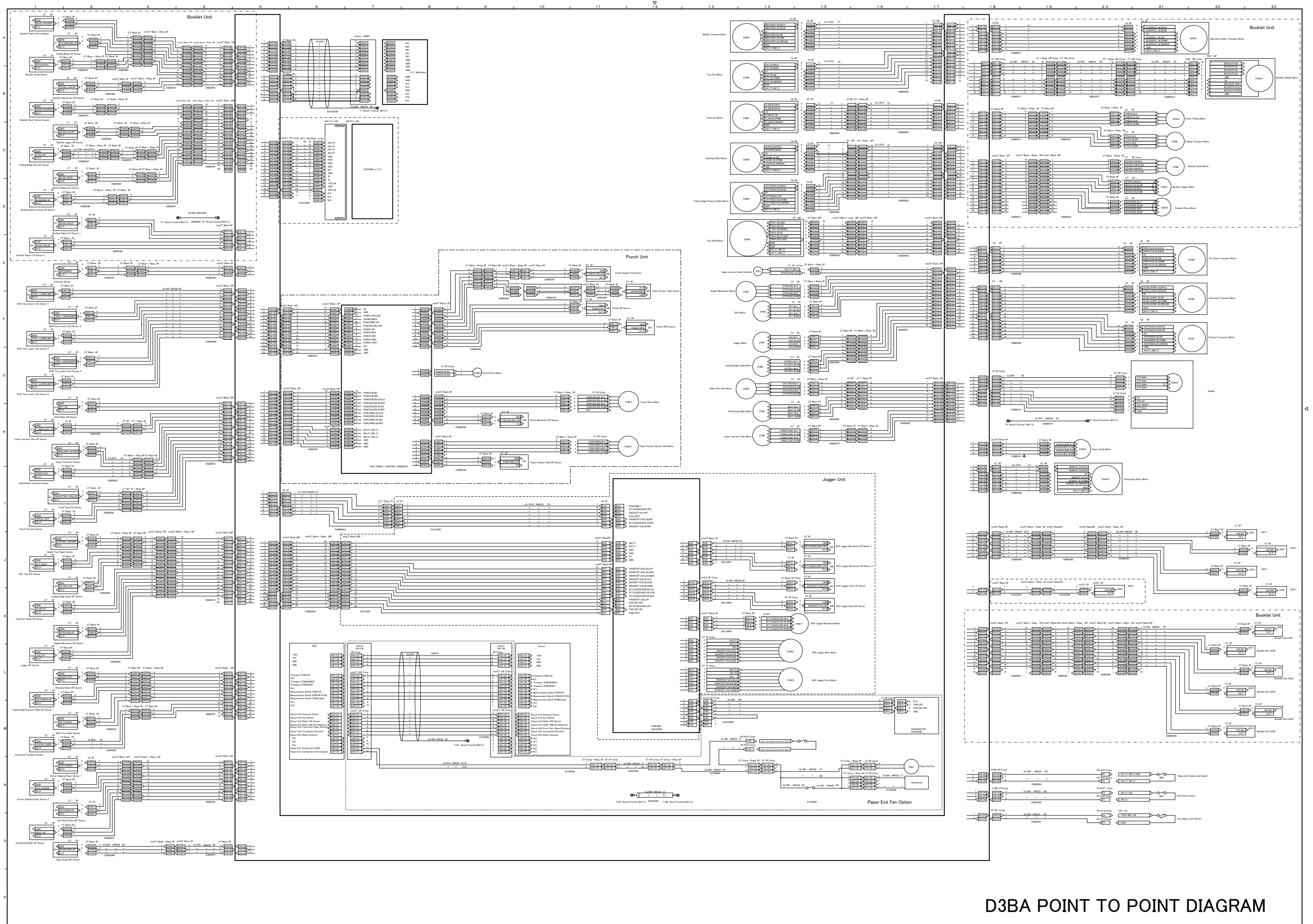
Harness No.	Connector (From)			Signal Information	Connector (To)			Note
	To Connector	Addr.	Pin No.		To Connector	Addr.	Pin No.	
68	Image Processing IOB	CN220	15	Skew Motor: C: A Phase	Harness No.71 D2425235	CN4	1	CN1,CN2,CN3,CN4: With relay connector
			14	Skew Motor: C: B Phase			2	
			13	+24 V			3	
			12	Skew Motor: C: /B Phase			4	
			11	Skew Motor: C: /A Phase			5	
			10	Skew Motor: M: A Phase			6	
			9	Skew Motor: M: B Phase			7	
			8	+24 V			8	
			7	Skew Motor: M: /B Phase			9	
			6	Skew Motor: M: /A Phase			10	
			5	Skew Motor: Y: A Phase			11	
			4	Skew Motor: Y: B Phase			12	
			3	+24 V			13	
			2	Skew Motor: Y: /B Phase			14	
			1	Skew Motor: Y: /A Phase			15	
71	Harness Nn.68 D2425237	CN13	11	Y Sync GND	Sync Detection Y	CN1	1	
			10	Y Sync VCC			2	
			9	Y Sync Signal			3	
			8	K Sync GND	Sync Detection K	CN2	1	
			7	K Sync VCC			2	
			6	K Sync Signal			3	
			5	Polygon Mirror Motor CLOCK	Polygon Mirror Motor	CN3	1	
			4	Polygon Mirror Motor READY			2	
			3	Polygon Mirror Motor ON			3	
			2	Polygon Mirror Motor GND	C Skew Motor	CN6	4	
			1	Polygon Mirror Motor DV24V			5	
	Harness Nn.68 D2425237	CN220	15	Skew Motor: C: A Phase			1	
			14	Skew Motor: C: B Phase			2	
			13	+24 V			3	
			12	Skew Motor: C: /B Phase			4	
			11	Skew Motor: C: /A Phase			5	
			10	Skew Motor: M: A Phase	M Skew Motor	CN5	1	
			9	Skew Motor: M: B Phase			2	
			8	+24 V			3	
			7	Skew Motor: M: /B Phase			4	
			6	Skew Motor: M: /A Phase	Y Skew Motor	CN4	5	
			5	Skew Motor: Y: A Phase			1	
			4	Skew Motor: Y: B Phase			2	
			3	+24 V			3	
			2	Skew Motor: Y: /B Phase			4	
			1	Skew Motor: Y: /A Phase			5	

Harness No.	Connector (From)			Signal Information	Connector (To)			Note
	To Connector	Addr.	Pin No.		To Connector	Addr.	Pin No.	
72	Harness No.68 D2425237	CN11	16	DATA3_K_N	LDB:KC	CN1	1	
			15	DATA3_K			2	
			14	DATA4_K_N			3	
			13	DATA4_K			4	
			12	DATA1_K_N			5	
			11	DATA1_K			6	
			10	DATA2_K_N			7	
			9	DATA2_K			8	
			8	DATA2_C_N			9	
			7	DATA2_C			10	
			6	DATA1_C_N			11	
			5	DATA1_C			12	
			4	DATA4_C_N			13	
			3	DATA4_C			14	
			2	DATA3_C_N			15	
			1	DATA3_C			16	
			32	GND			17	
			31	GND			18	
			-	N.C.			19	
			30	+5VS			20	
			29	GND			21	
			28	DROPEN			22	
			27	ERR_KC_N			23	
			26	APC_KC_N			24	
			-	N.C.			25	
			25	SYCLK_KC			26	
			24	SYCLK_KC_N			27	
			23	SYDI_KC			28	
			22	SYDO_KC			29	
			21	+5VS			30	
			20	+5VS			31	
			19	N.C.			-	
			18	GND			32	
			17	N.C.			-	
	Harness No.68 D2425237	CN12	17	DATA2_Y	LDB:YM	CN2	1	
			16	DATA2_Y_N			2	
			15	DATA1_Y			3	
			14	DATA1_Y_N			4	
			13	DATA4_Y			5	
			12	DATA4_Y_N			6	
			11	DATA3_Y			7	
			10	DATA3_Y_N			8	
			9	DATA3_M			9	
			8	DATA3_M_N			10	
			7	DATA4_M			11	
			6	DATA4_M_N			12	
			5	DATA1_M			13	
			4	DATA1_M_N			14	
			3	DATA2_M			15	
			2	DATA2_M_N			16	
			1	N.C.			17	
			34	GND			18	
			33	GND			19	
			32	+5VS			20	
			-	N.C.			21	
			31	N.C.			22	
			30	GND			23	
			29	SYCLK_YM			24	
			28	SYCS_YM_N			25	
			27	SYDI_YM			26	
			26	SYDO_YM			27	
			-	N.C.			28	
			-	N.C.			29	
			25	ERR_YM_N			30	
			24	APC_YM_N			31	
			23	+5VS			32	
			22	+5VS			33	
			21	N.C.			-	
			20	N.C.			-	
			19	N.C.			-	
			18	GND			34	

M0AJ/M0AL Harness Pin Assignment

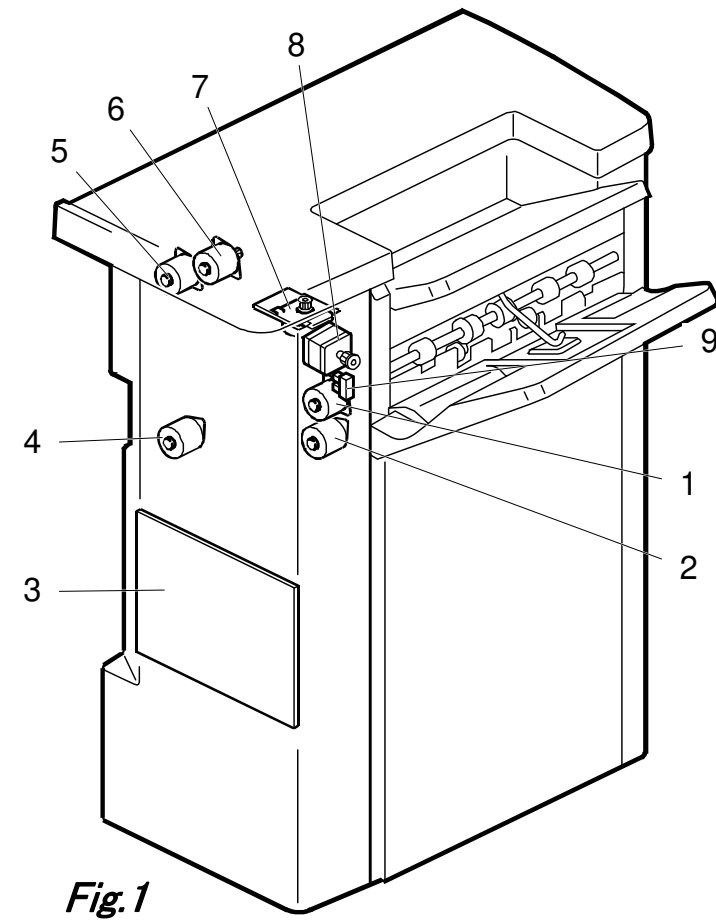
Harness No.	Connector (From)			Signal Information	Connector (To)			Note
	To Connector	Addr.	Pin No.		To Connector	Addr.	Pin No.	
80	Harness No.23 D2425355	CN1	1	GND	Screw	T1	-	CN4,CN5,CN6,CN7: With relay connector
			2	N.C.	-	-	-	
			3	HT1/L	Screw	T3	-	
			4	HT2/L	Screw	T4	-	
			5	HT2/N	Heating Edge Heater	CN8	1	
			6	HT1/N	Heating Center Heater		2	
		CN2	1	Pressure Thermistor: Center: GND	Pressure Thermistor: Center	CN4	2	
			2	Pressure Thermistor: Center: FB			1	
			3	Pressure Thermistor: End: GND	Pressure Thermistor: End/2	CN5	4	
			4	Pressure Thermistor: End: FB			3	
			5	Pressure Thermistor: Expanded End: GND	Pressure Thermistor: Expanded End	CN6	2	
			6	Pressure Thermistor: Expanded End: FB			1	
			7	Non-Contact Thermistor (Center): GND	Non-Contact Thermistor1		6	
			8	Non-Contact Thermistor (Center): Compensation			5	
			9	Non-Contact Thermistor (Center):Detection	Non-Contact Thermistor2		4	
			10	Non-Contact Thermistor (Edge): GND			3	
			11	Non-Contact Thermistor (Edge): Compensation			2	
			12	Non-Contact Thermistor (Edge): Detection			1	
		CN3	13	N.C.	-	-	-	
			1	N.C.	-	-	-	
			2	N.C.	-	-	-	
			3	NewUnit Detection Fuse: GND	NewUnit Detection Fuse	CN7	2	
			4	NewUnit Detection Fuse			1	
			5	Detection for Fusing Unit Setting and	Fusing Unit Setting:	-	10	
			6	N.C.	-	-	-	
			7	N.C.	-	-	-	
			8	N.C.	-	CN3	-	
			9	N.C	-	-	-	
			11	N.C.	-	-	-	
81	Harness No.23 M0AJ5355	CN1	1	GND	Screw	T1	-	CN4,CN5,CN6,CN7: With relay connector
			2	N.C.	-	-	-	
			3	HT1/L	Screw	T3	-	
			4	HT2/L	Screw	T4	-	
			5	HT1/N	Heating Edge Heater	CN8	1	
			6	HT2/N	Heating Center Heater		2	
		CN2	1	Pressure Thermistor: Center: GND	Pressure Thermistor: Center	CN4	2	
			2	Pressure Thermistor: Center: FB			1	
			3	Pressure Thermistor: End: GND	Pressure Thermistor: End/2	CN5	4	
			4	Pressure Thermistor: End: FB			3	
			5	Pressure Thermistor: Expanded End: GND	Pressure Thermistor: Expanded End	CN6	2	
			6	Pressure Thermistor: Expanded End: FB			1	
			7	Non-Contact Thermistor (Center): GND	Non-Contact Thermistor1		6	
			8	Non-Contact Thermistor (Center): Compensation			5	
			9	Non-Contact Thermistor (Center):Detection	Non-Contact Thermistor2		4	
			10	Non-Contact Thermistor (Edge): GND			3	
			11	Non-Contact Thermistor (Edge): Compensation			2	
			12	Non-Contact Thermistor (Edge): Detection			1	
		CN3	13	N.C.	-	-	-	
			1	N.C.	-	-	-	
			2	Detection for Fusing Unit Setting and	Fusing Unit Setting:	CN3	10	
			3	NewUnit Detection Fuse: GND	NewUnit Detection Fuse	CN7	2	
			4	NewUnit Detection Fuse			1	
			5	N.C.	-	-	-	
			6	N.C.	-	-	-	
			7	N.C.	-	-	-	
			8	N.C.	-	-	-	
			9	N.C	-	-	-	
			10	N.C.	-	-	-	

Harness No.	Connector (From)			Signal Information	Connector (To)			Note
	To Connector	Addr.	Pin No.		To Connector	Addr.	Pin No.	
82	IPU	CN1	1	5VX	Operation Panel	CN2	1	
			2	USB D-			2	
			3	USB D+			3	
			4	Multi Trigger Signal			4	
			5	GND			5	
			6	SUBLINK Signal: -			6	
			7	SUBLINK Signal: +			7	
			8	GND			8	
			9	VBYOne Signal: -			9	
			10	VBYOne Signal: +			10	
83	CTL	P1	1	GND	HDD	P2	1	
			2	HDD Signal: TXP			2	
			3	HDD Signal: TXM			3	
			4	GND			4	
			5	HDD Signal: RXM			5	
			6	HDD Signal: RXP			6	
			7	GND			7	
84	CTL	CN1	1	GND	HDD	CN2	3	
			2	5V Power			2	
			3	HDD Detect Signal			1	



D3BA POINT TO POINT DIAGRAM

D3BA ELECTRICAL COMPONENT LAYOUT



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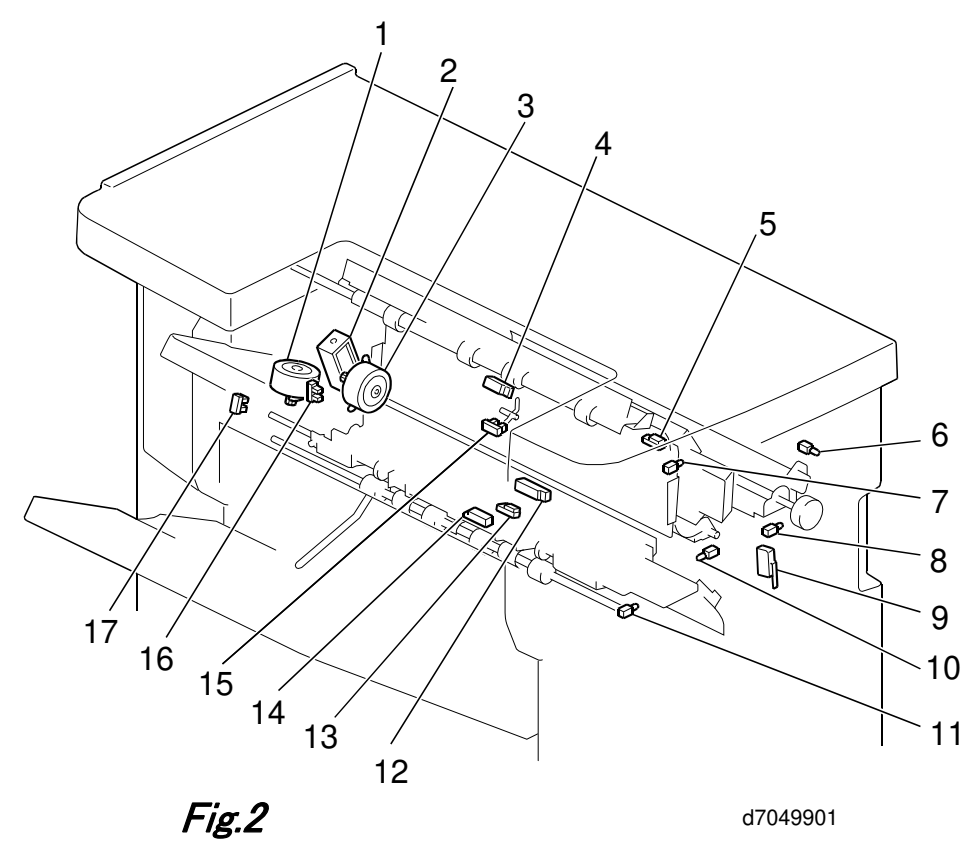


Fig.2

d7049901

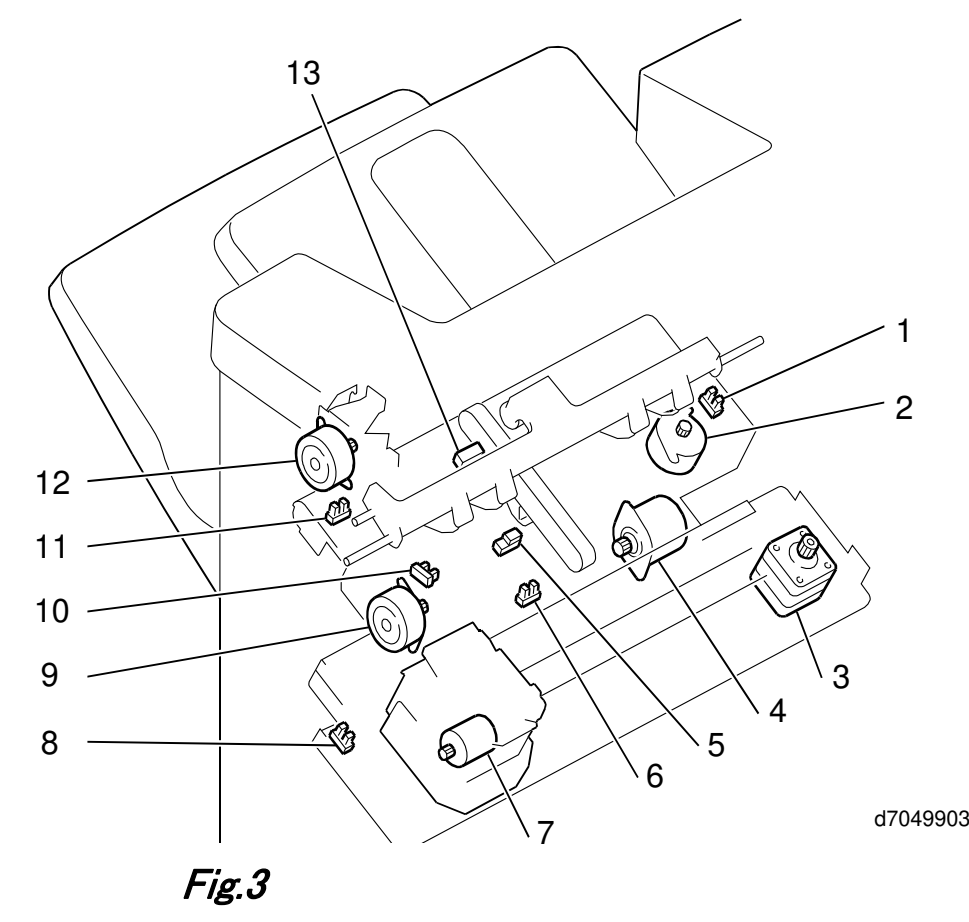


Fig.3

d7049903

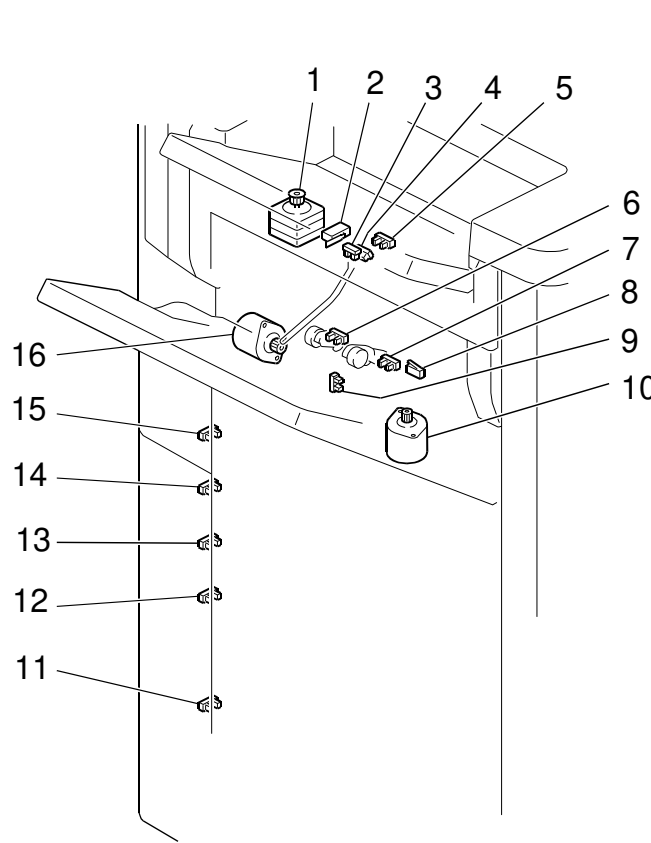


Fig.4

d7049904

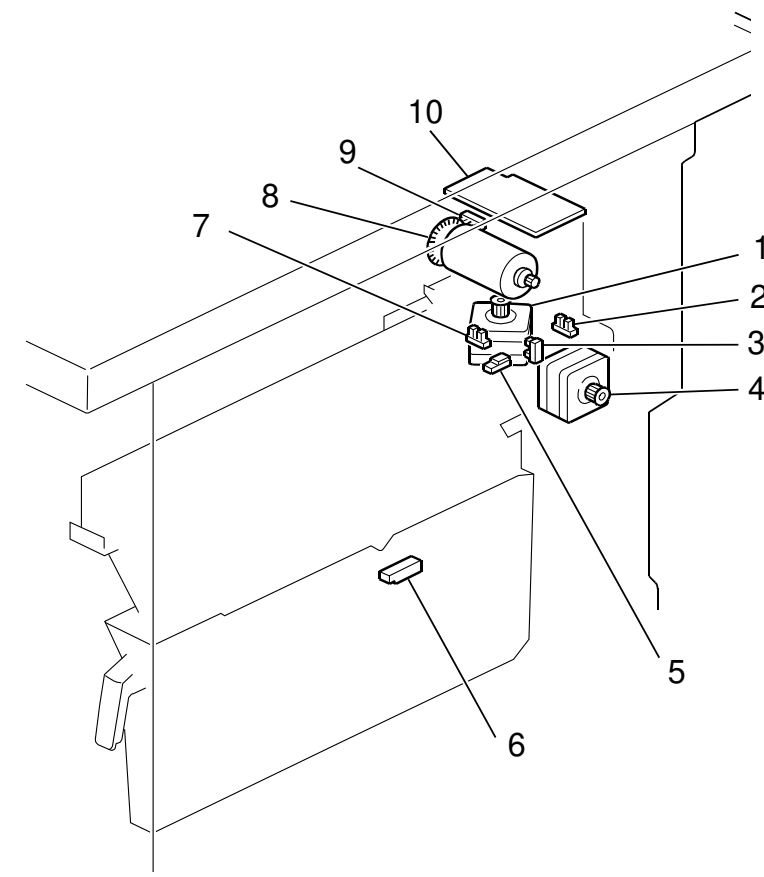


Fig.5

d7049907

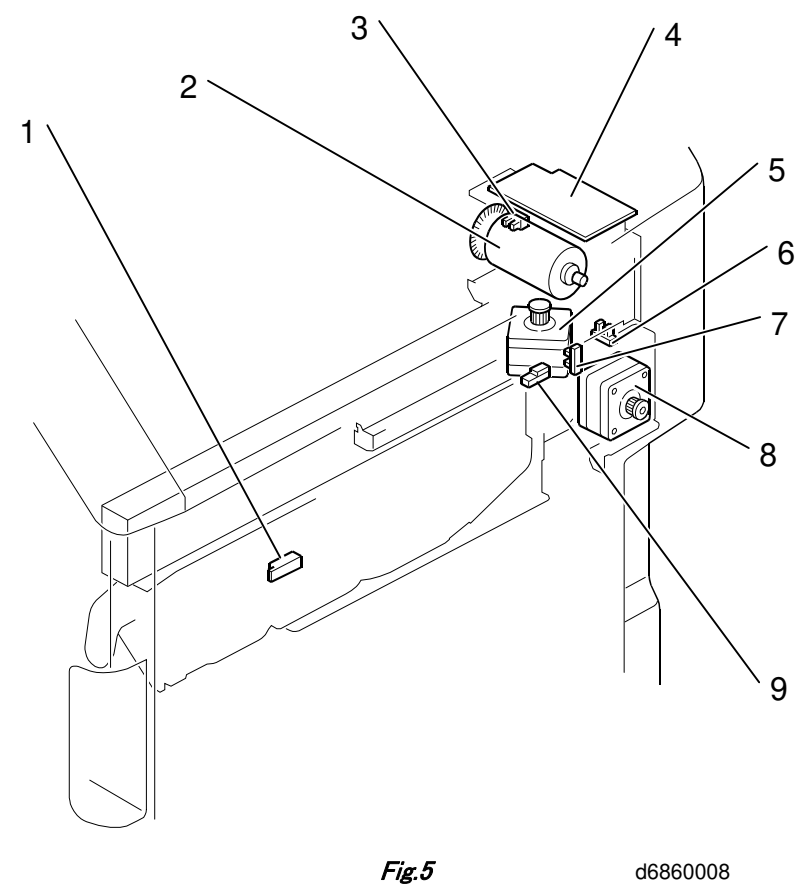
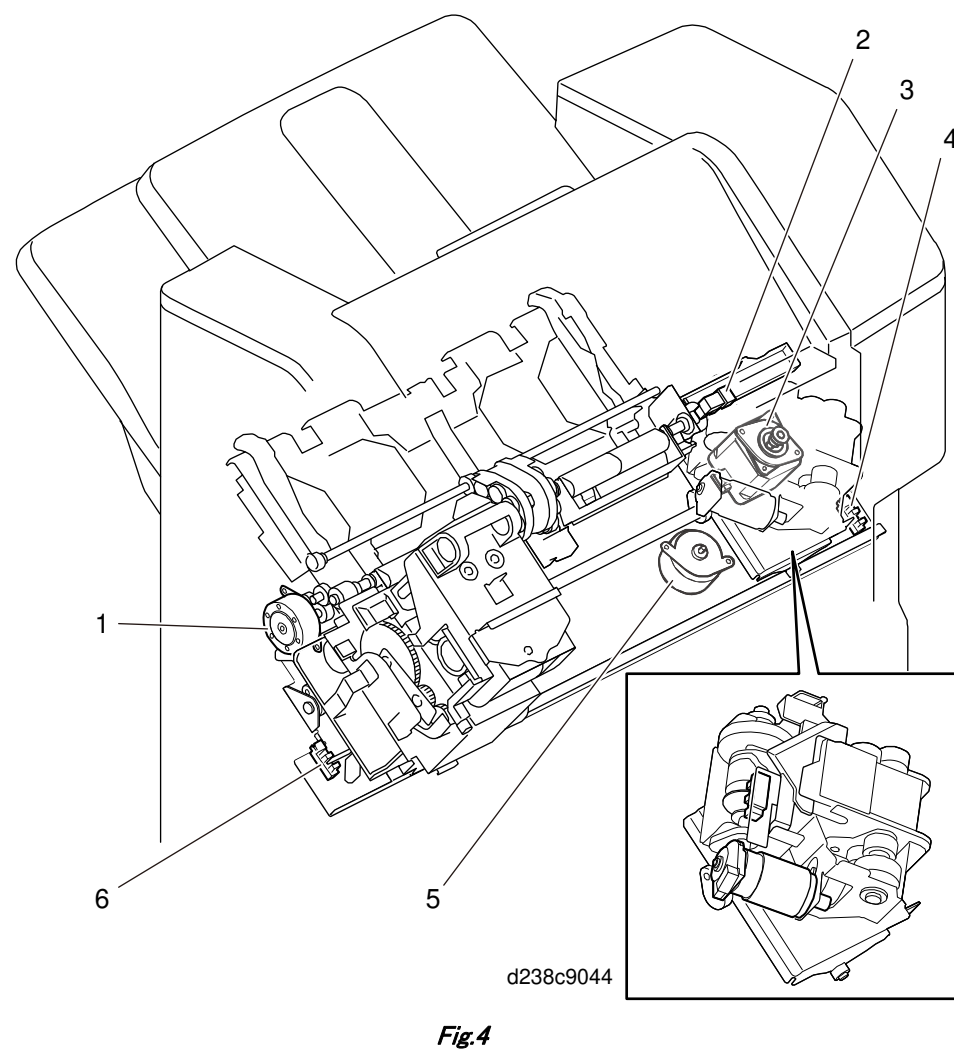
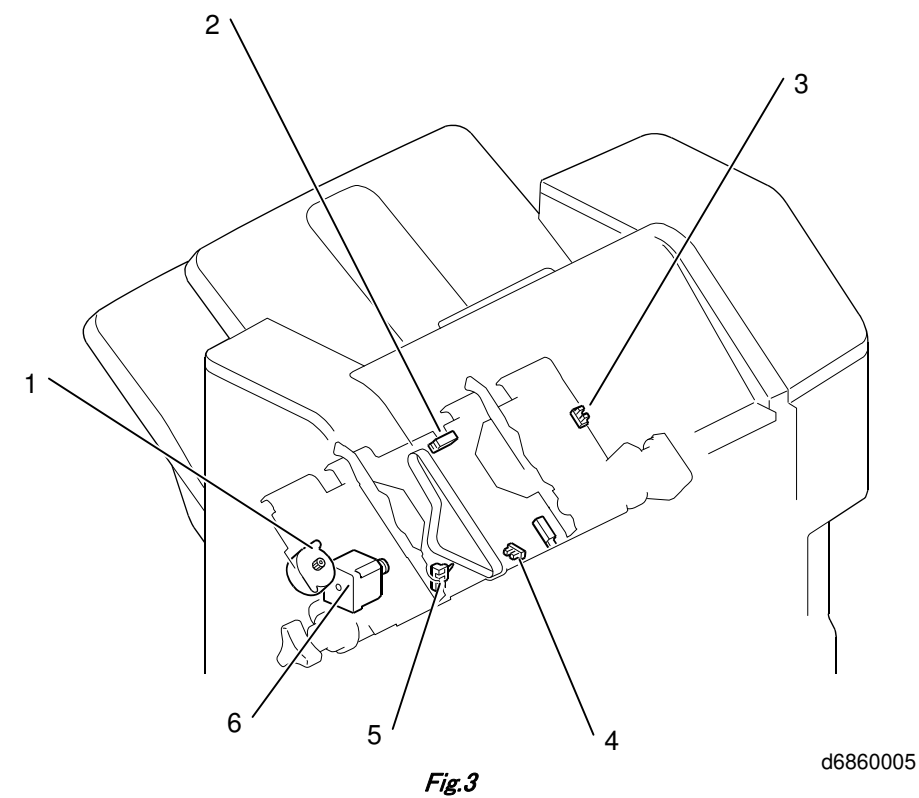
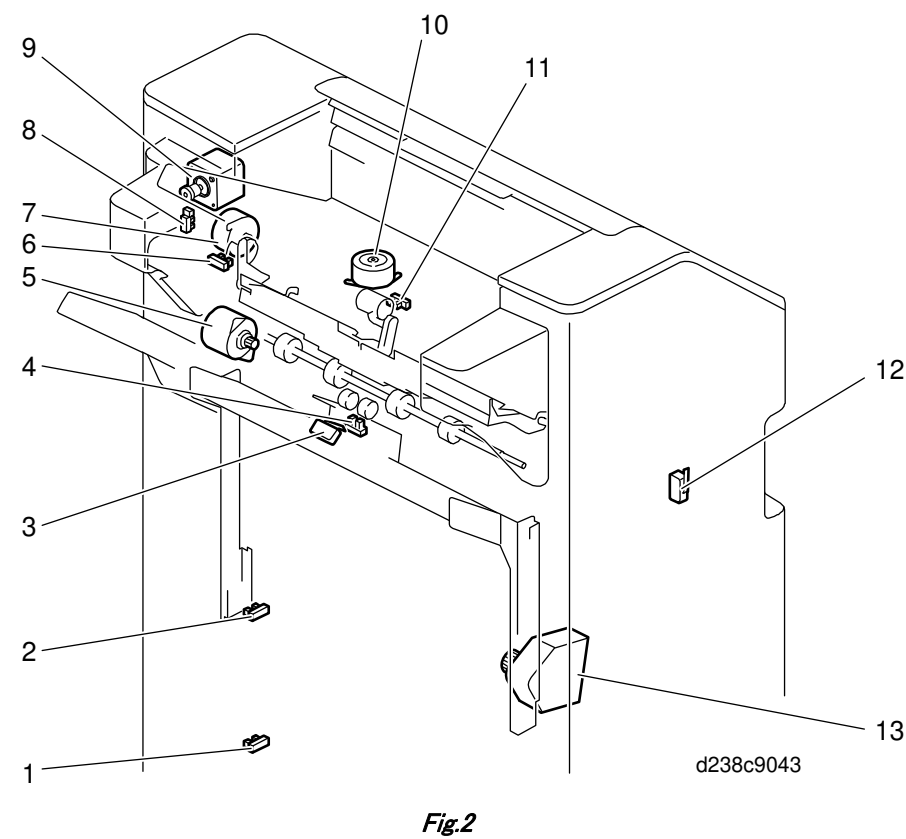
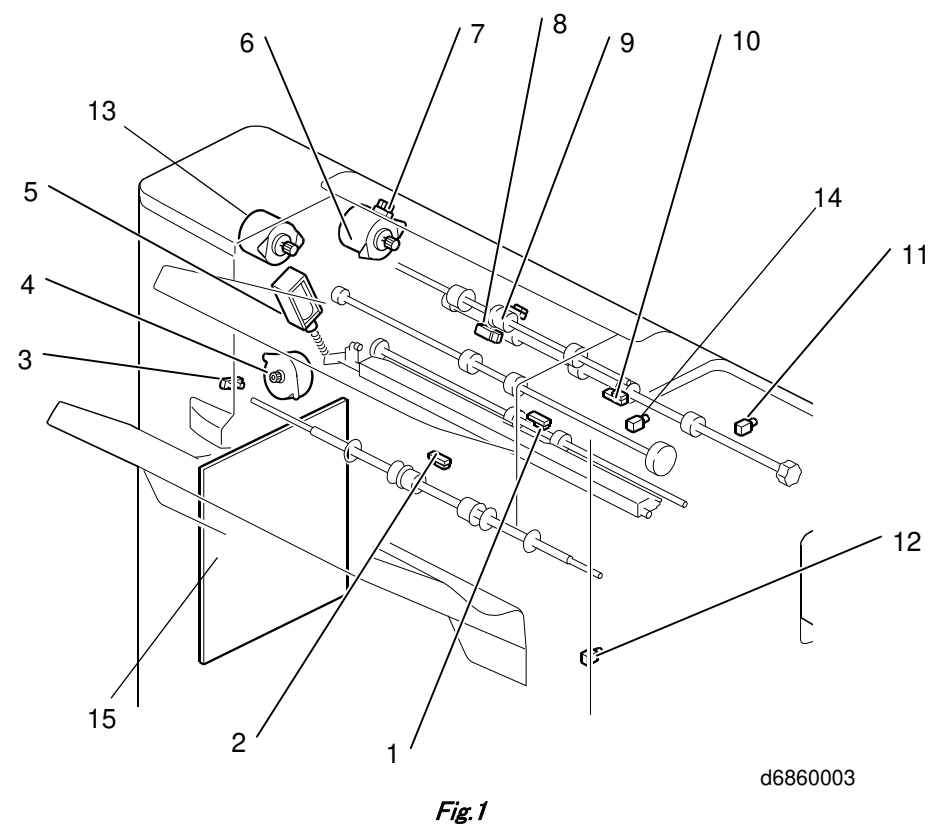
Symbol	Index No.	Description	P to P
Sensors			
S1	–	Folding Blade HP Sensor	A1
S2	–	Booklet Paper Sensor(Upper)	A1
S3	–	Booklet Adjustment HP Senso	B1
S4	–	Booklet Guide Sensor	B1
S5	–	Booklet Bottom Fence HP Sensor	D1
S6	–	Bottom Paper Exit Sensor	D1
S7	–	Booklet Paper Full Sensor 1	D1
S8	–	Booklet Paper Full Sensor 2	E1
S9	–	Folding Blade Cam HP Sensor	C1
S10	–	Booklet Jogger HP Sensor	C1
S11	–	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.5-7	Punch HP Sensor	F11
S39	Fig.5-9	Punch RPS Sensor	F12
S40	Fig.5-2	Punch Movement HP Sensor	H10
S41	Fig.5-3	Paper Position Side HP Sensor	I10
S42	Fig.5-6	Punch Hopper Full Sensor	E11
S43	Fig.5-5	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
Motors			
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	–	Booklet Guide Motor	C21
STM9	–	Folding Transport Motor	C21
STM10	–	Press Folding Motor	B21
STM11	–	Booklet Jogger Motor	D21
STM12	–	Booklet Fence Motor	D21
STM13	Fig.5-8	Punch Drive Motor	G12
STM14	Fig.5-4	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	–	Movement Roller Transport Motor	A22
DCM12	–	Booklet Stapler Motor	B23
DCM13	Fig.5-1	Punch Drive Motor	G9
DCM14	Fig.3-12	Positioning Roller Motor	I20
Switches			
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
LEDs			
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	–	Booklet Unit LED1	K23
LED7	–	Booklet Unit LED2	L23
LED8	–	Booklet Unit LED3	L23
LED9	–	Booklet Unit LED4	M23
LED10	–	Booklet Unit LED5	M23
LED11	–	Booklet Unit LED6	M23
Solenoids			
SOL1	Fig.2-2	Upper Junction Gate Solenoid	E14
FAN			
FAN1	–	Paper Exit Fan	N17
PCBs			
PCB1	Fig.1-3	Main Control Board	–
PCB2	Fig.5-10	Punch Unit Control Board	–



D3B8 POINT TO POINT DIAGRAM

D3B8 ELECTRICAL COMPONENT LAYOUT(1/2)



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	IntermediateTransport 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 PlateOpen/Close HP Sensor	F23
S29	Fig5-9	Paper PositionSensor	C14
S30	Fig5-6	Punch MovementHP Sensor	F13
S31	Fig5-7	Paper PositionSide 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.3-6	Release Claw Motor	G23
STM5	Fig2-7	PositioningRoller Motor	E23
STM6	-	Stapler(590) Motor	K23
STM14	Fig5-5	Punch Movement Motor	E14
STM15	Fig5-8	Paper PositionSensor 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	Fig.1-13	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	Fig.1-14	Intermediate Transport JAM LED	A13
LED3	Fig.1-11	Entrance Transport JAM LED	A13
Solenoids			
SOL1	Fig.1-5	Junction Solenoid	D23
Others			
PCB1	Fig.1-15	Main Control Board	P11
PCB2	Fig.5-4	PCB: Punch	G10

D3B9 ELECTRICAL COMPONENT LAYOUT(1/2)

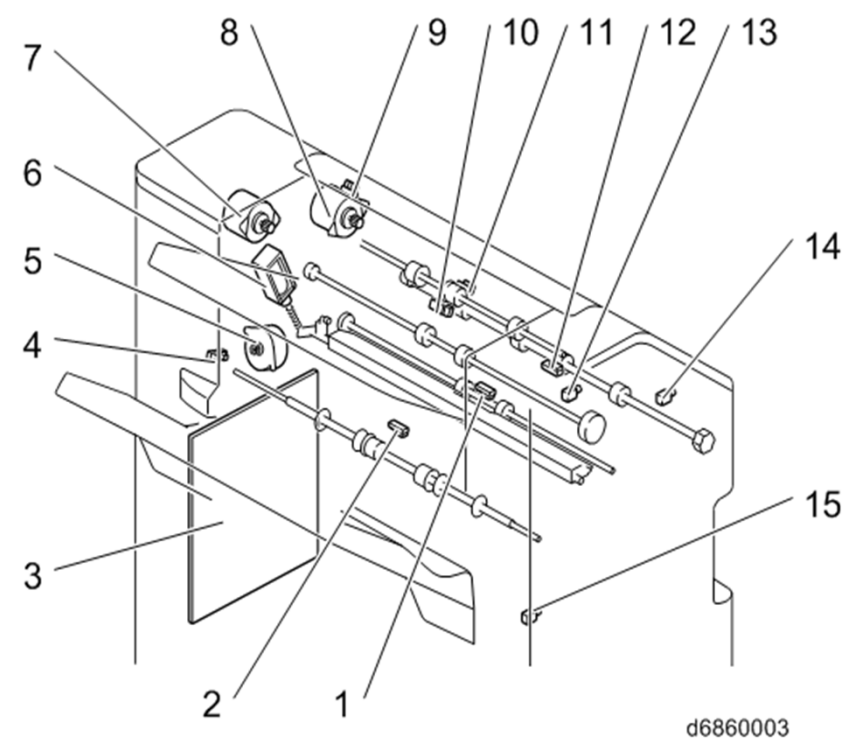


Fig.1

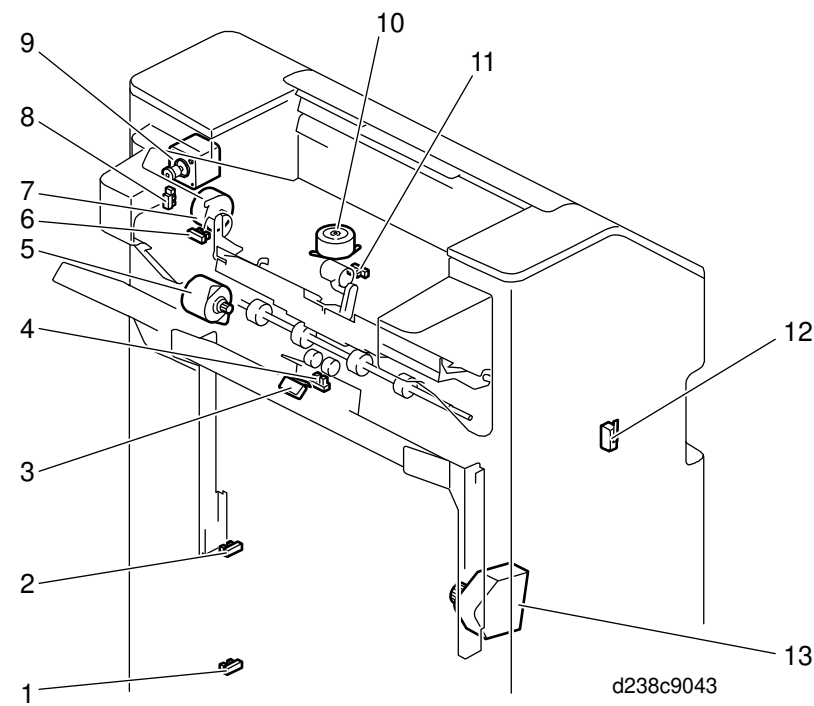


Fig.2

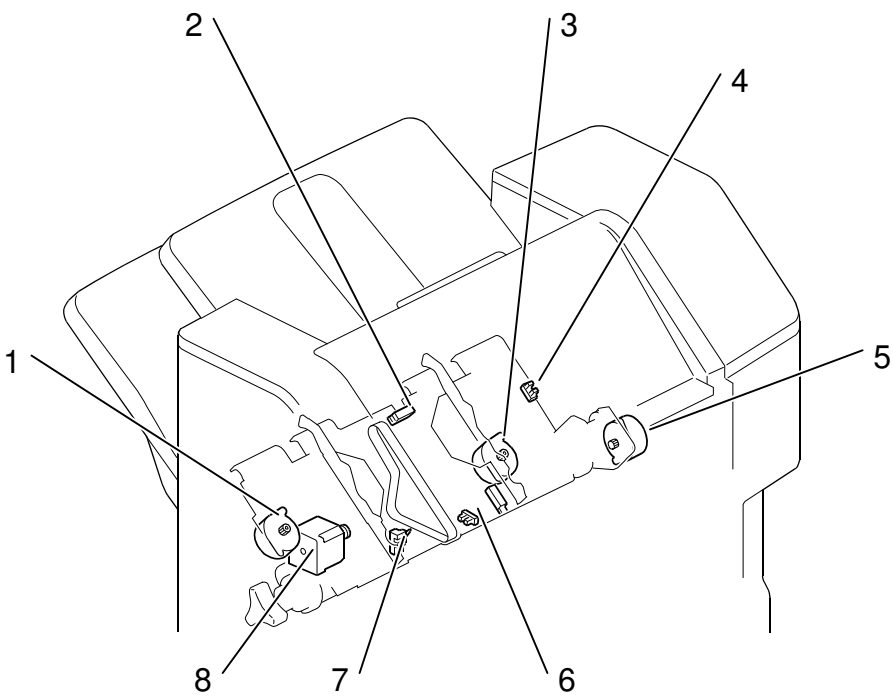


Fig.3

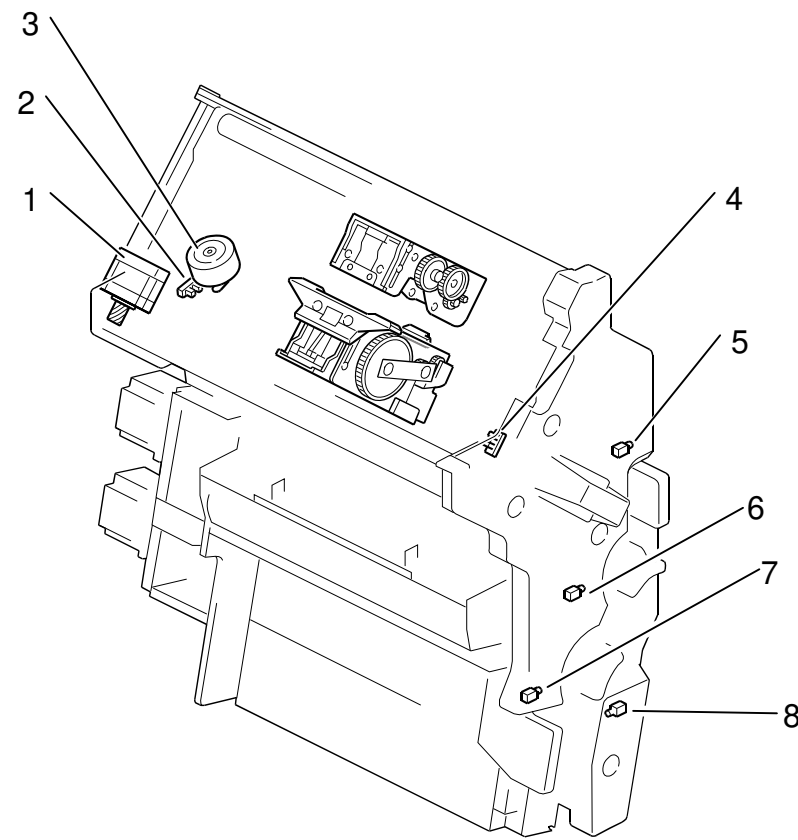


Fig.4

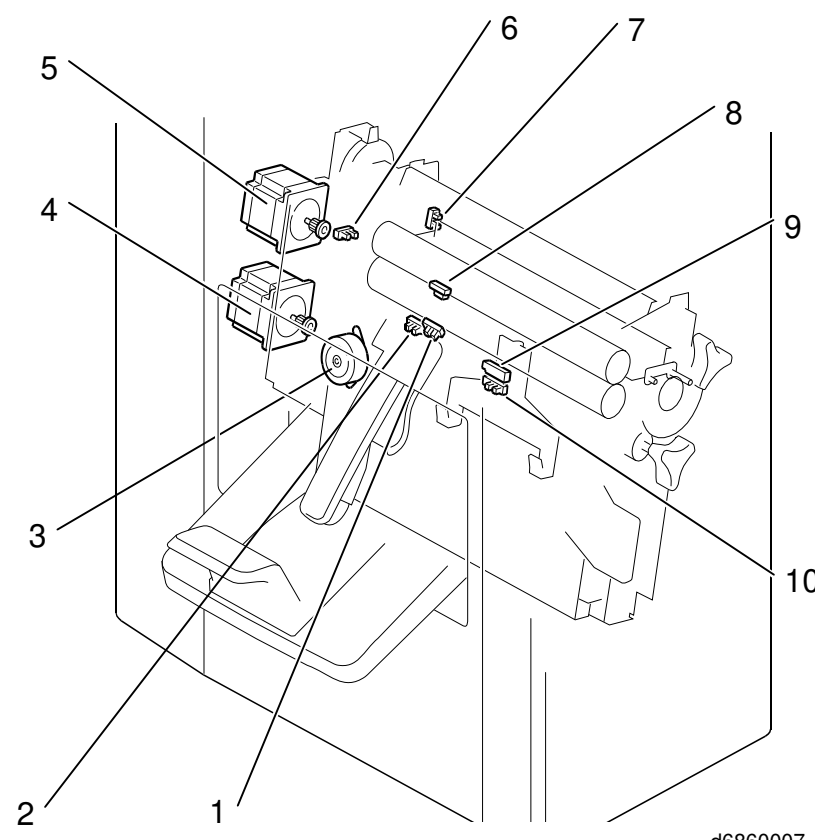


Fig.5

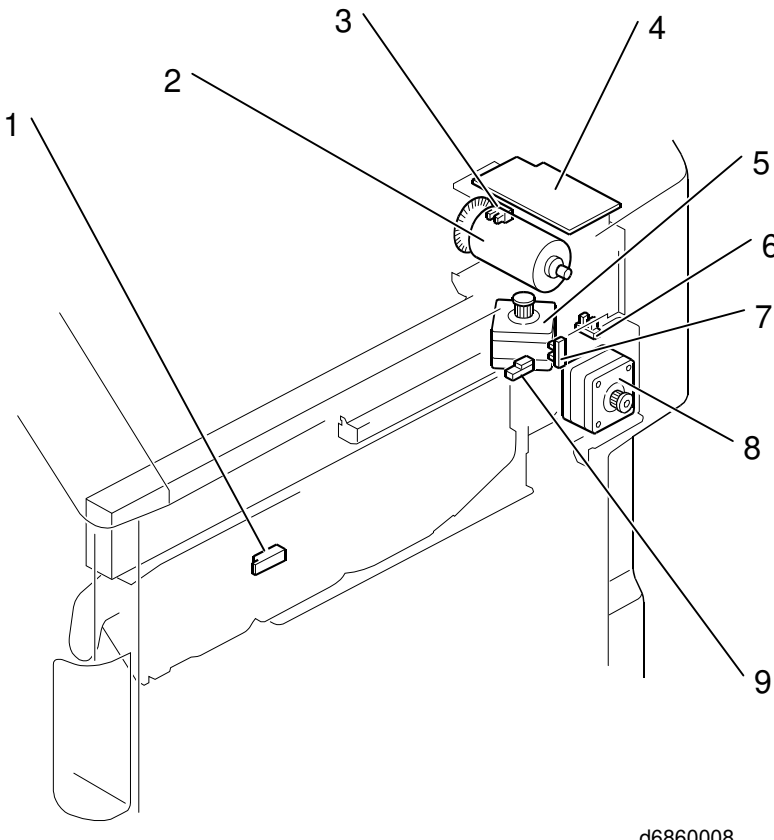
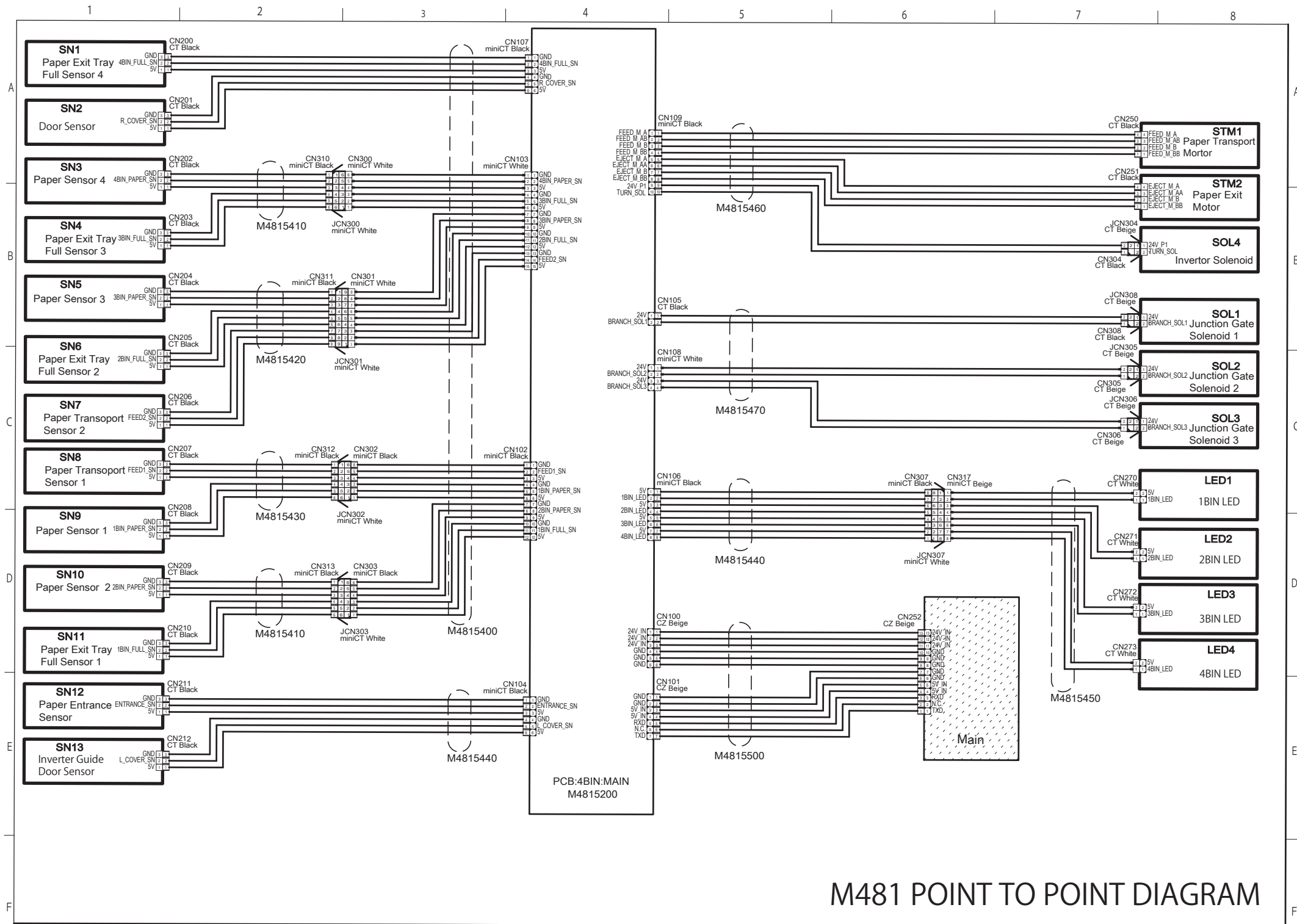


Fig.6

D3B9 ELECTRICAL COMPONENT LAYOUT(2/2)

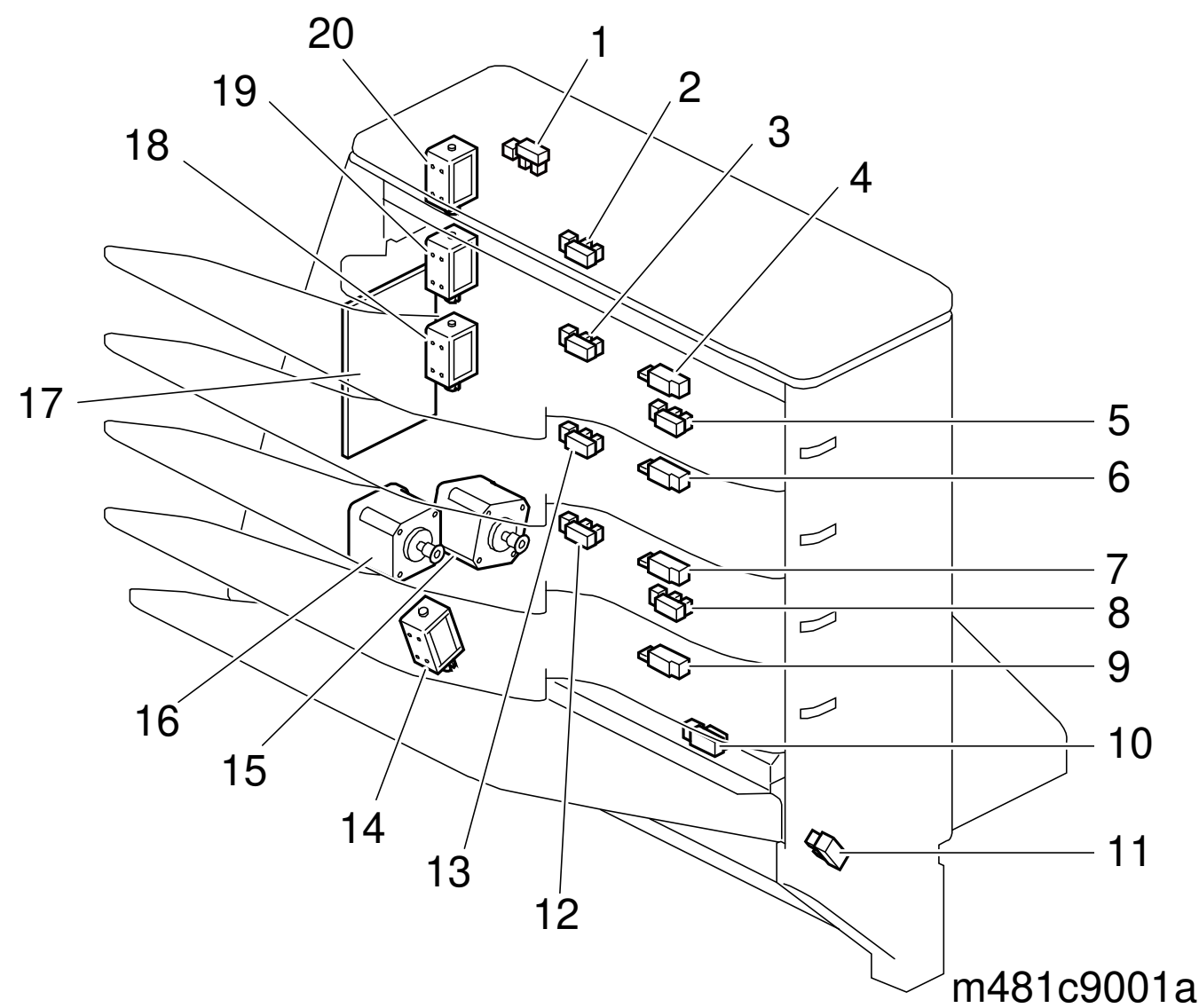
Symbol	Index No.	Description	P to P
Sensors			
S1	Fig.2-1	Shift Tray Lower Limit Sensor (Upper)	I1
S2	Fig.5-2	Center-Folding Tray Full Sensor 2	O1
S3	-	Paper Bundle Transport Sensor	N1
S4	Fig.5-1	Center-Folding Tray Full Sensor 1	O1
S5	Fig.4-2	Paper Bundle Transport Lower Pressure Release HP Sensor	N1
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.1-9	Upper Cover Open/Close Sensor	G1
S17	Fig.1-4	Shift HP Sensor	G1
S18	Fig.1-12	Entrance Sensor	H1
S19	Fig.1-1	IntermediateTransport Sensor R	F1
S20	Fig.1-2	Intermediate Transport Sensor L	E1
S21	Fig.1-10	Proof Tray Full Sensor	E1
S22	Fig.1-11	Proof Tray Paper Eject Sensor	D1
S23	Fig.2-11	Paper Guide PlateOpen/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	Fig.6-9	Paper Position Sensor	C14
S30	Fig.6-6	Punch MovementHP Sensor	F13
S31	Fig.6-7	Paper PositionSide HP Sensor	G13
S32	Fig.6-1	Punch HopperFull Sensor	B14
S33	Fig.6-3	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.1-5	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	FoldingTransport Motor	K23
STM13	Fig.5-3	Trailing Edge Stopper Motor	L23
STM14	Fig.6-5	Punch Movement Motor	E14
STM15	Fig.6-8	Paper PositionSensor Slide Motor	F14
STM16	Fig.2-9	Paper Exit Guide Drive Motor	F23
DCM1	Fig.1-8	Entrance Transport Motor	A23
DCM2	Fig.1-7	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	Fig.6-2	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.1-15	Staple Tray JAM LED	A13
LED2	Fig.1-13	Intermediate Transport JAM LED	A13
LED3	Fig.1-14	Entrance Transport JAM LED	A13
LED4	Fig.4-5	Paper Bundle Transport JAM LED	K14
LED5	Fig.4-6	Folding Blade JAM LED	K14
LED6	Fig.4-7	Folding Roller JAM LED	K14
LED7	Fig.4-8	Trailing Edge Stopper JAM LED	L14
Solenoids			
SOL1	Fig.1-6	Junction Solenoid	D23
Others			
PCB1	Fig.1-3	Main Control Board	P11
PCB2	Fig.6-4	PCB: Punch	G10



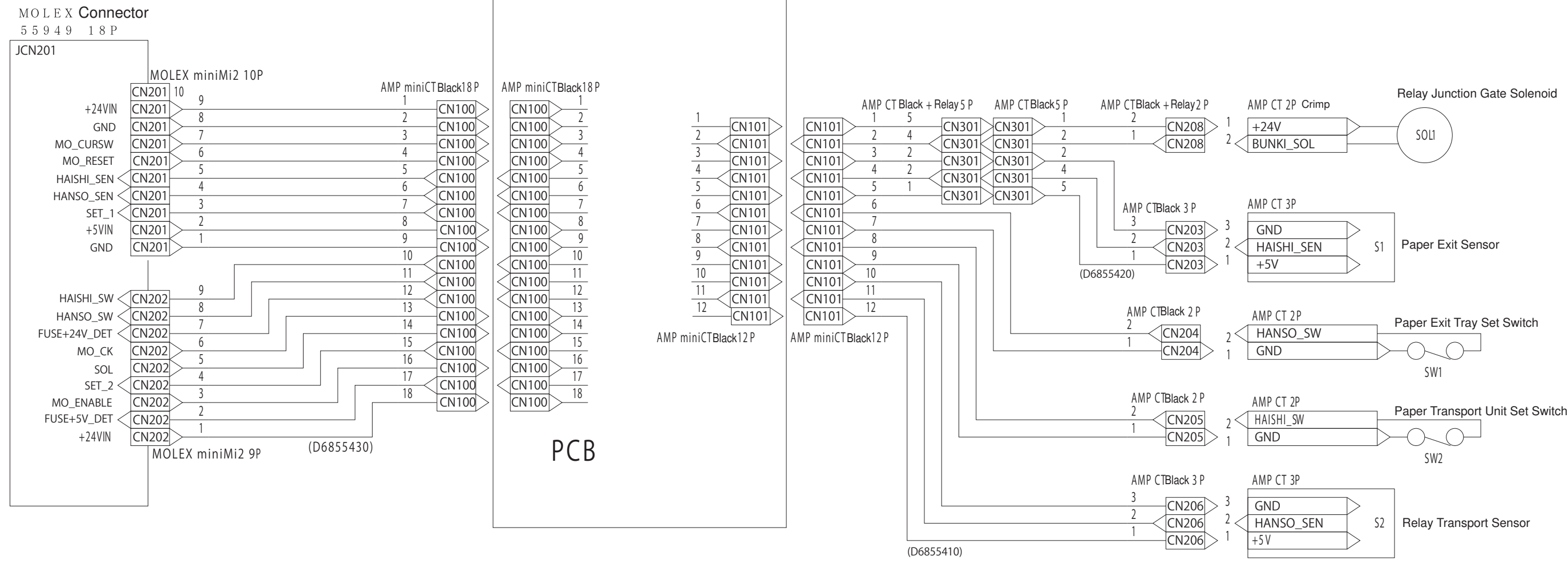
M481 POINT TO POINT DIAGRAM

M481 ELECTRICAL COMPONENT LAYOUT

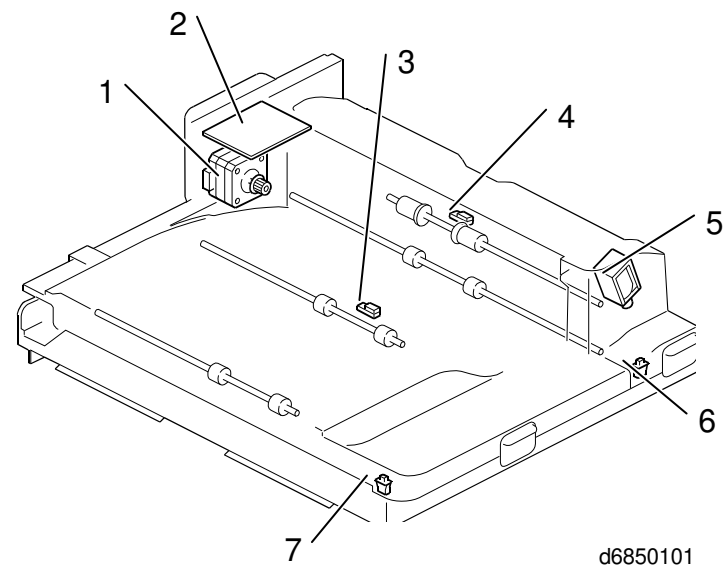


Motors			
Symbol	Index No.	Description	PtoP
STM1	15	Paper Transport Mortor	A8
STM2	16	Paper Exit Motor	B8
Sensors			
Symbol	Index No.	Description	PtoP
SN1	2	Paper Exit Tray Full Sensor 4	A1
SN2	1	Door Sensor	A1
SN3	4	Paper Sensor 4	A1
SN4	3	Paper Exit Tray Full Sensor 3	B1
SN5	6	Paper Sensor 3	B1
SN6	13	Paper Exit Tray Full Sensor 2	C1
SN7	5	Paper Transoport Sensor 2	C1
SN8	8	Paper Transoport Sensor 1	C1
SN9	9	Paper Sensor 1	D1
SN10	7	Paper Sensor 2	D1
SN11	12	Paper Exit Tray Full Sensor 1	D1
SN12	10	Paper Entrance Sensor	E1
SN13	11	Inverter Guide Door Sensor	E1
Solenoids			
Symbol	Index No.	Description	PtoP
SOL1	18	Junction Gate Solenoid 1	B8
SOL2	19	Junction Gate Solenoid 2	C8
SOL3	20	Junction Gate Solenoid 3	C8
SOL4	14	Invertor Solenoid	B8
LED			
Symbol	Index No.	Description	PtoP
LED1	-	1BIN LED	C8
LED2	-	2BIN LED	D8
LED3	-	3BIN LED	D8
LED4	-	4BIN LED	D8
PCB			
Symbol	Index No.	Description	PtoP
PCB1	17	Controller Board	E4

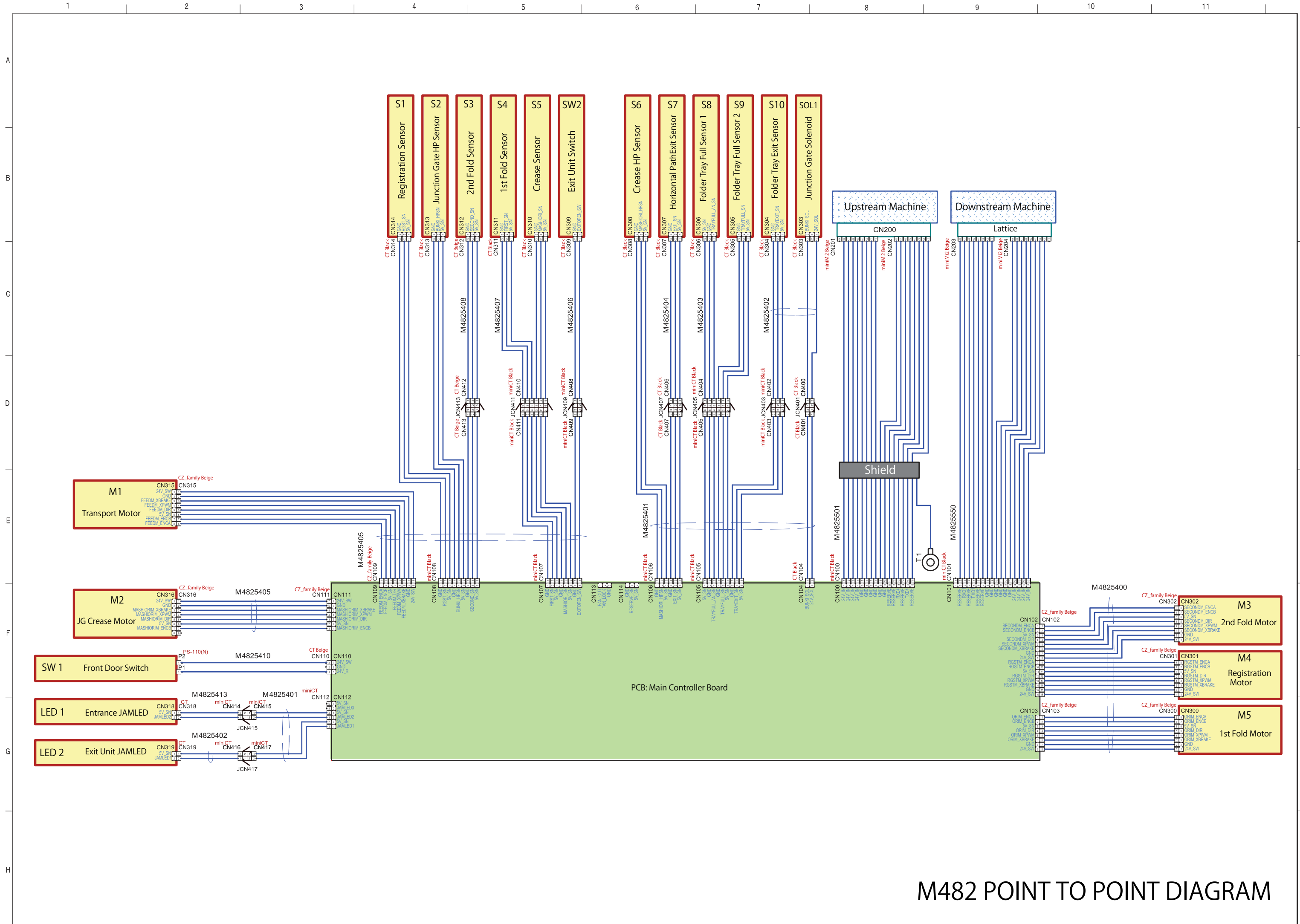
D685 POINT TO POINT DIAGRAM



D685 ELECTRICAL COMPONENT LAYOUT

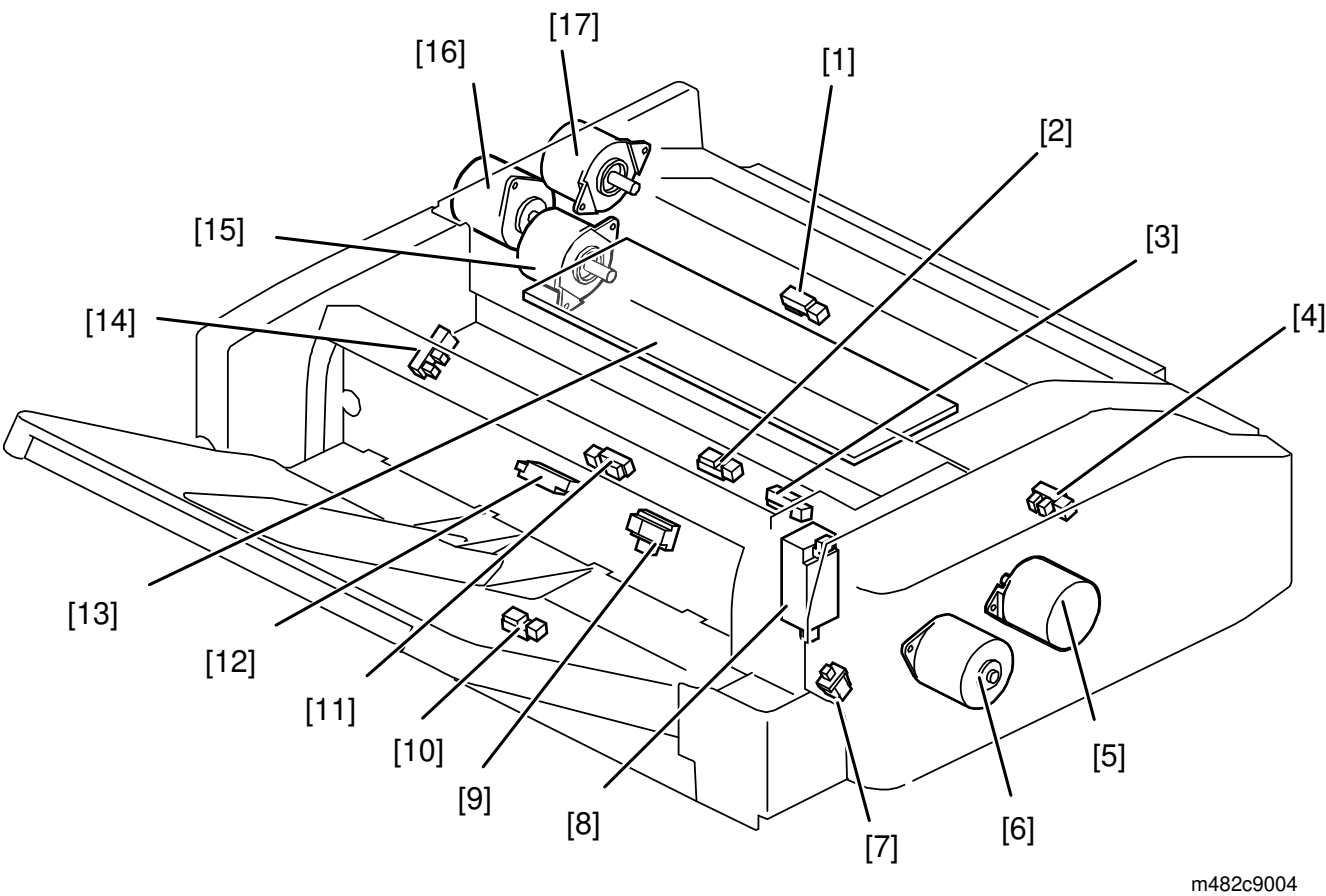


Motors			
Symbol	Index No.	Description	PtoP
M1	1	Drive Motor	B6
Sensors			
Symbol	Index No.	Description	PtoP
S1	4	Paper Exit Sensor	C7
S2	3	Relay Transport Sensor	E7
Solenoids			
Symbol	Index No.	Description	PtoP
SOL1	5	Relay Junction Gate Solenoid	C7
Switches			
Symbol	Index No.	Description	PtoP
SW1	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



M482 POINT TO POINT DIAGRAM

M482 ELECTRICAL COMPONENT LAYOUT

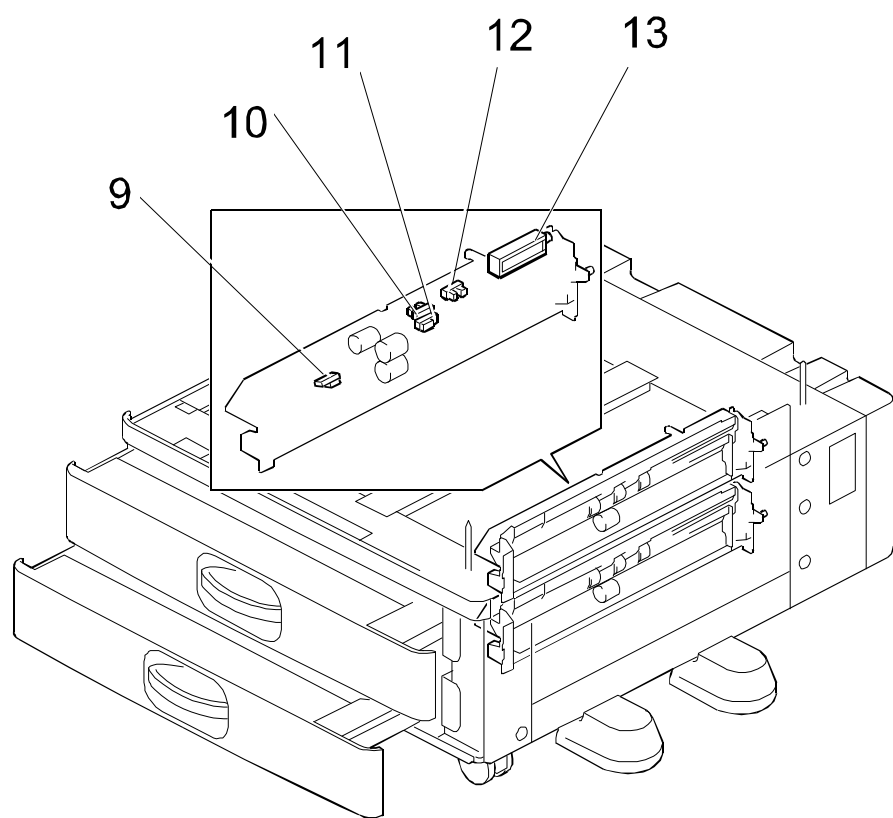
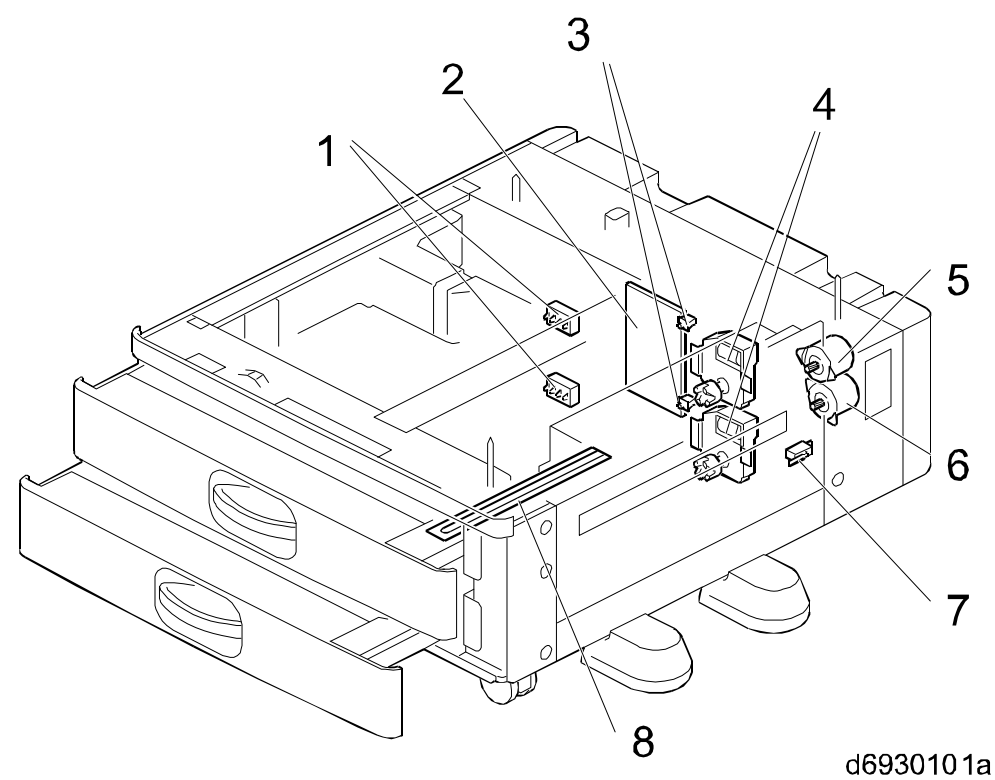


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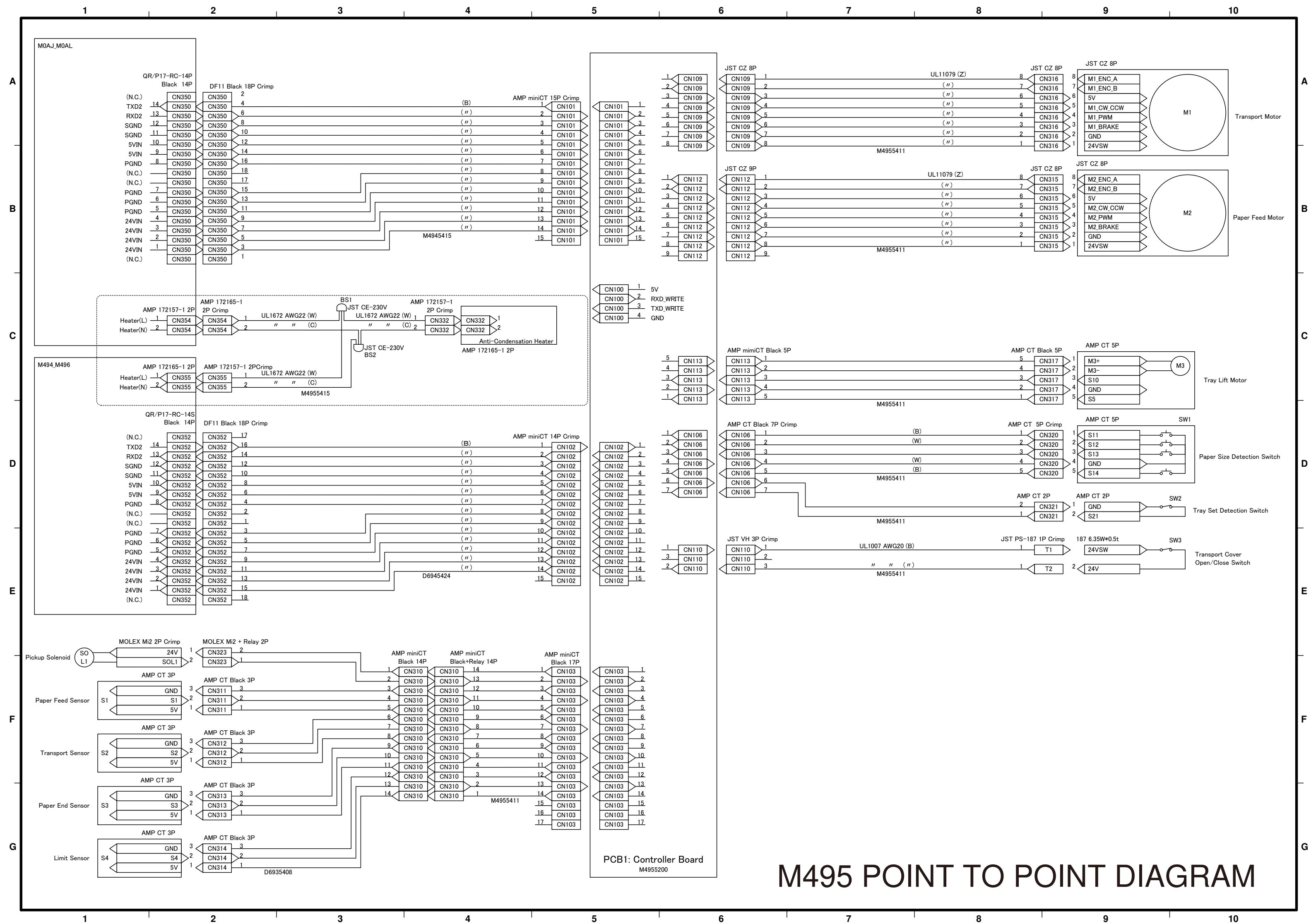
Symbol	Index No.	Description	P to P
Sensors			
S1	1	Registration Sensor	B4
S2	4	Junction Gate HP Sensor	B4
S3	-	2nd Fold Sensor	B5
S4	2	1st Fold Sensor	B5
S5	3	Crease Sensor	B5
S6	14	Crease HP Sensor	B6
S7	10	Horizontal PathExit Sensor	B6
S8	12	Folder Tray Full Sensor 1	B7
S9	9	Folder Tray Full Sensor 2	B7
S10	11	Folder Tray Exit Sensor	B7
Motors			
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
Switches			
SW1	-	Front Door Switch	F1
SW2	7	Exit Unit Switch	B5
Solenoid			
SOL1	8	Junction Gate Solenoid	B7
LED			
LED1	-	Entrance JAMLED	G1
LED2	-	Exit Unit JAMLED	G1
PCB			
PCB1	13	Main Controller Board	F6



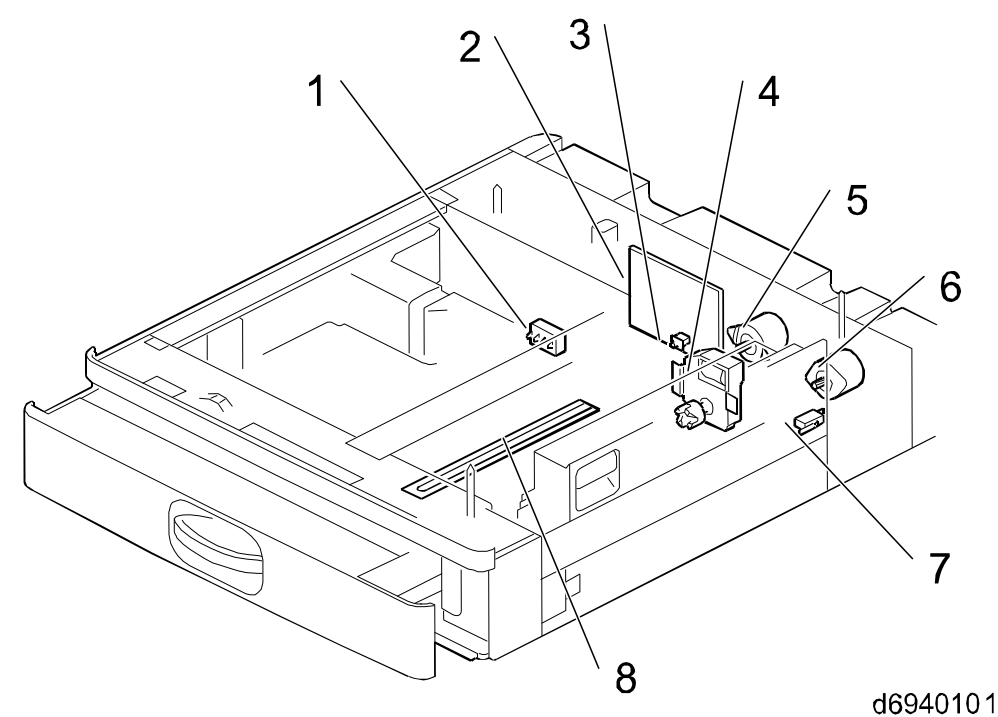
M494 ELECTRICAL COMPONENT LAYOUT



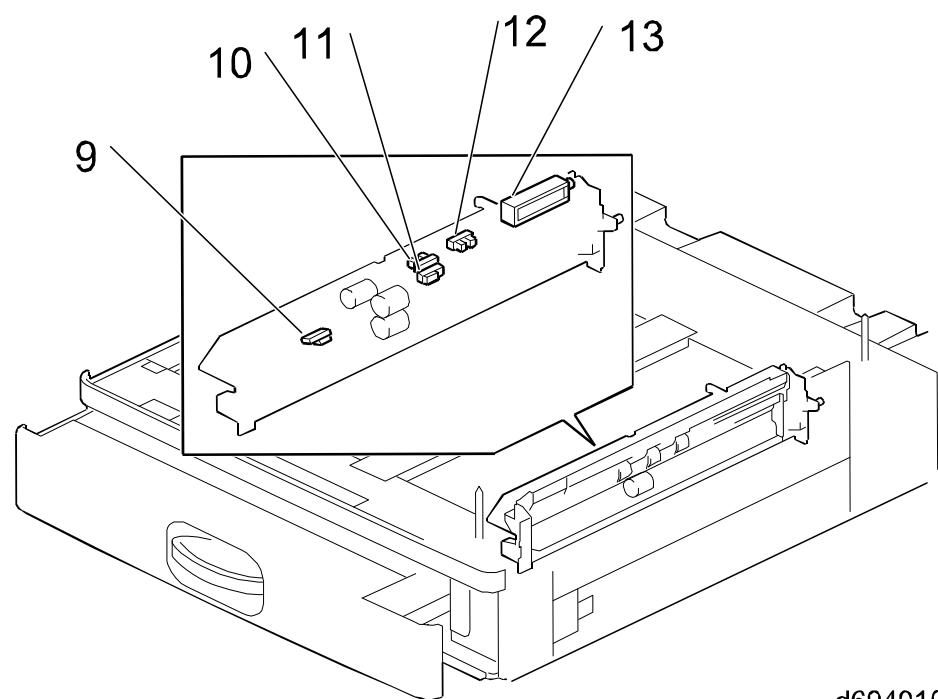
Motors			
Symbol	Index No.	Description	PtoP
M1	6	Transport Motor	A10
M2	5	Paper Feed Motor	B10
M3	4	Tray Lift Motor 1	B10
M4	4	Tray Lift Motor 2	C10
Sensors			
Symbol	Index No.	Description	PtoP
S1	9	Paper Feed Sensor 1	E1
S2	11	Transport Sensor 1	E1
S3	10	Paper End Sensor 1	E1
S4	12	Limit Sensor 1	F1
S5	9	Paper Feed Sensor 2	F1
S6	11	Transport Sensor 2	G1
S7	10	Paper End Sensor 2	G1
S8	12	Limit Sensor 2	G1
Solenoids			
Symbol	Index No.	Description	PtoP
SOL1	13	Pickup Solenoid 1	E1
SOL2	13	Pickup Solenoid 2	F1
Switches			
Symbol	Index No.	Description	PtoP
SW1	1	Paper Size Detection Switch 1	C10
SW2	3	Tray Set Detection Switch 1	C10
SW3	1	Paper Size Detection Switch 2	D10
SW4	3	Tray Set Detection Switch 2	D10
SW5	7	Transport Cover Open/Close Switch	D10
PCB			
Symbol	Index No.	Description	PtoP
PCB1	2	Bank Control Board	G6
Others			
Symbol	Index No.	Description	PtoP
HTR	8	Anti-Condensation Heater	B3



M495 ELECTRICAL COMPONENT LAYOUT

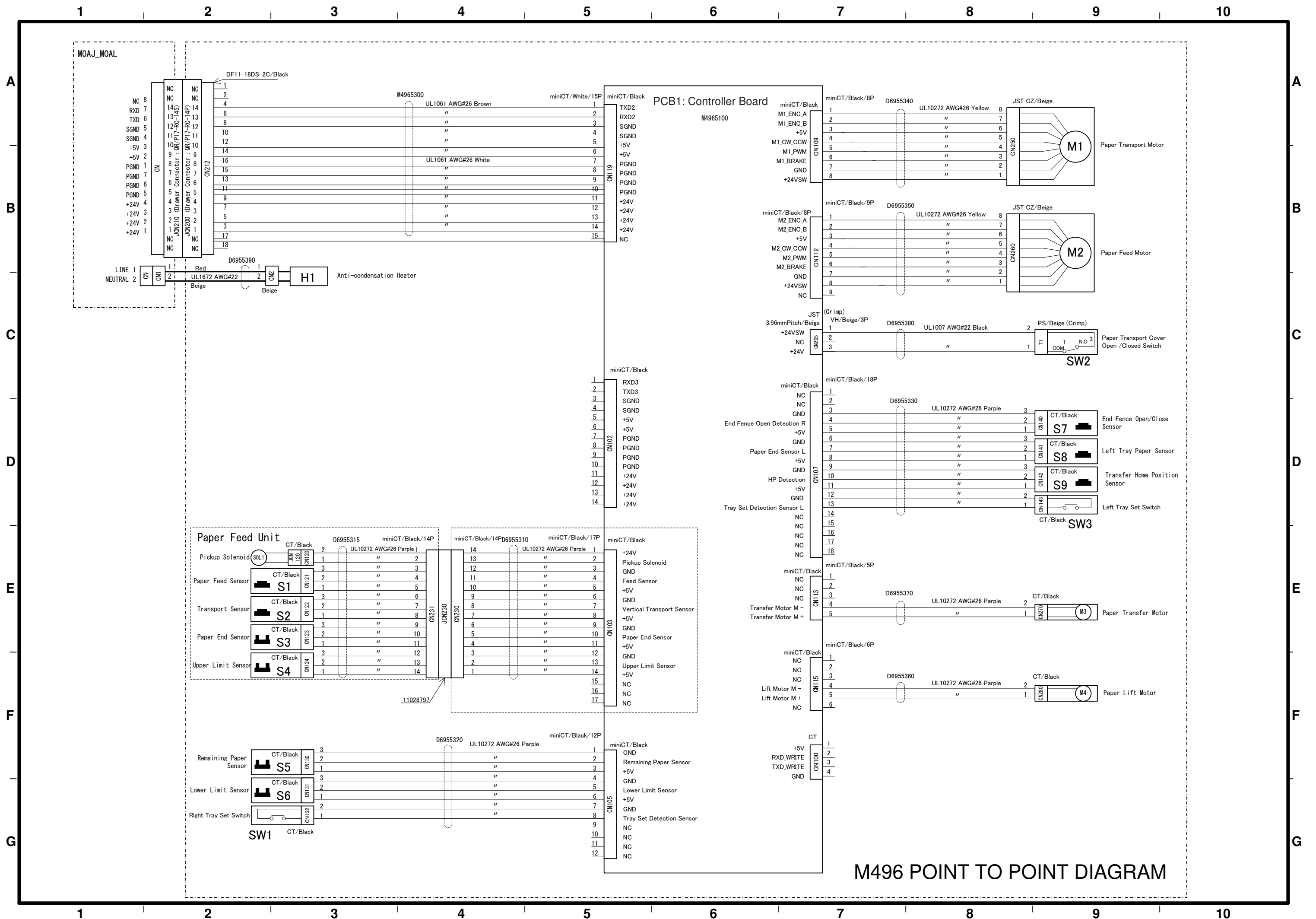


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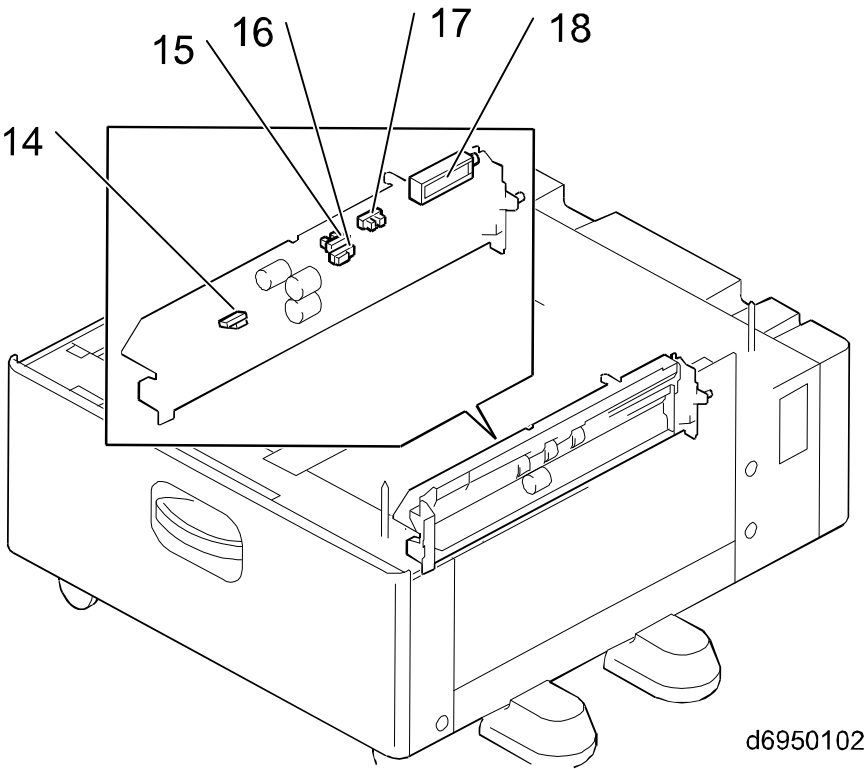
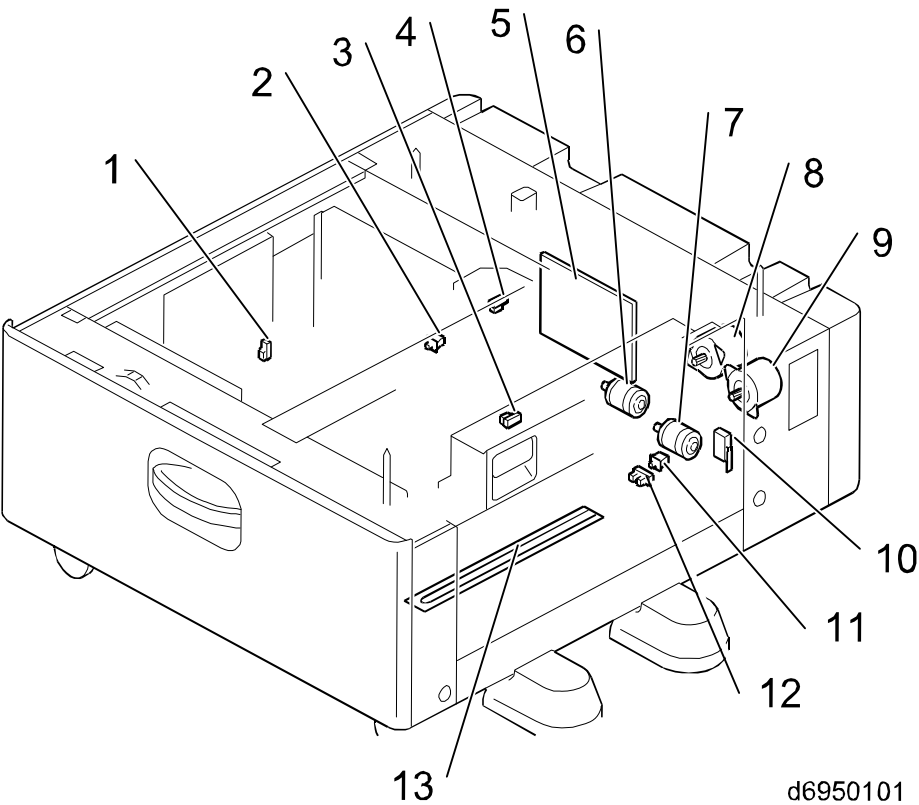


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Motors			
Symbol	Index No.	Description	PtoP
M1	6	Transport Motor	A10
M2	5	Paper Feed Motor	B10
M3	4	Tray Lift Motor	C10
Sensors			
Symbol	Index No.	Description	PtoP
S1	9	Paper Feed Sensor	F1
S2	11	Transport Sensor	F1
S3	10	Paper End Sensor	G1
S4	12	Limit Sensor	G1
Solenoids			
Symbol	Index No.	Description	PtoP
SOL1	13	Pickup Solenoid	F1
Switches			
Symbol	Index No.	Description	PtoP
SW1	1	Paper Size Detection Switch	D10
SW2	3	Tray Set Detection Switch	D10
SW3	7	Transport Cover Open/Close Switch	E10
PCB			
Symbol	Index No.	Description	PtoP
PCB1	2	Controller Board	G5
Others			
Symbol	Index No.	Description	PtoP
HTR	8	Anti-Condensation Heater	C4

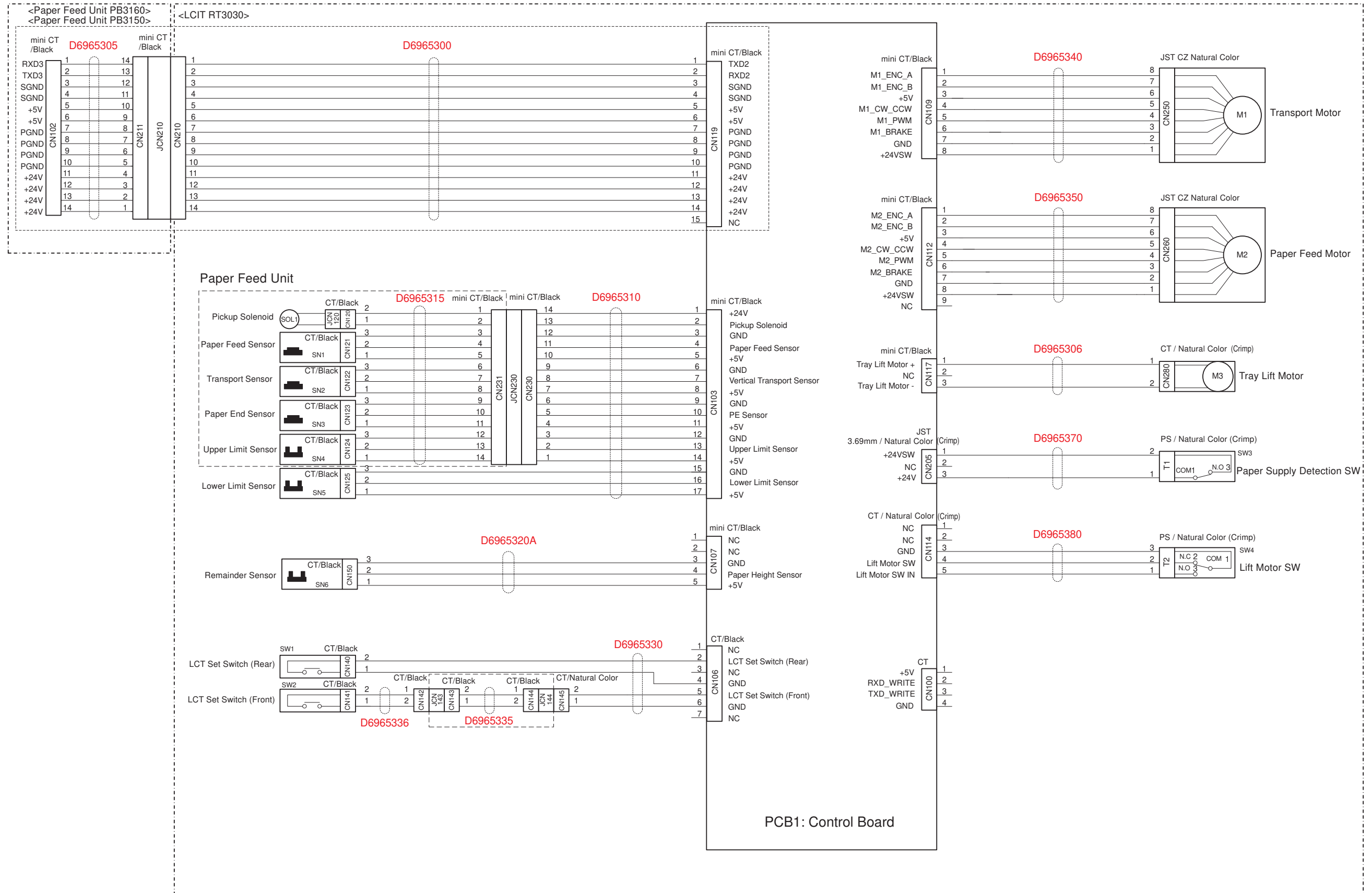


M496 ELECTRICAL COMPONENT LAYOUT

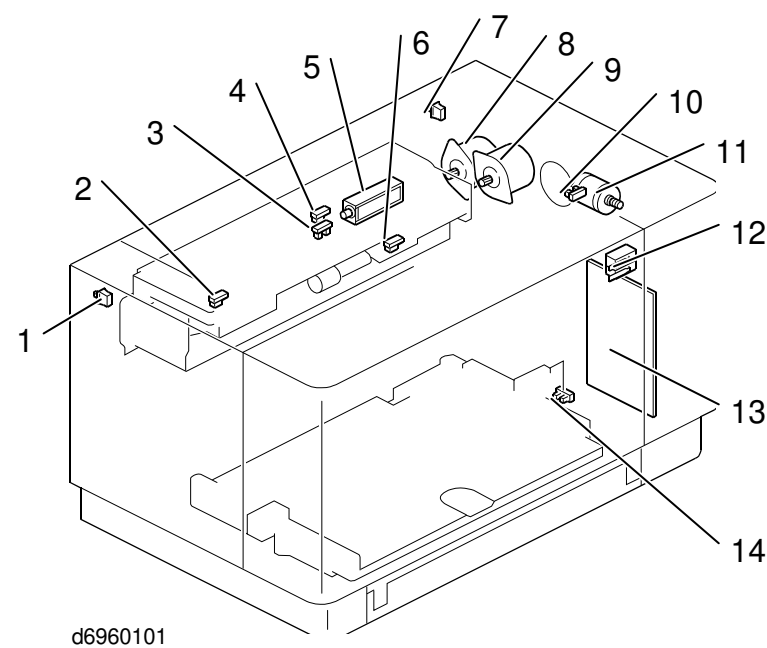


Motors			
Symbol	Index No.	Description	PtoP
M1	9	Transport Motor	A9
M2	8	Paper Feed Motor	B9
M3	6	Transfer Motor	E9
M4	7	Lift Motor	F9
Sensors			
Symbol	Index No.	Description	PtoP
SN1	14	Paper Feed Sensor	E2
SN2	16	Transport Sensor	E2
SN3	15	Paper End Sensor	E2
SN4	17	Upper Limit Sensor	F2
SN5	-	Remaining Paper Sensor	F2
SN6	12	Lower Limit Sensor	G2
SN7	4	End Fence Open/Close Sensor	D9
SN8	3	Left Tray Paper Sensor	D9
SN9	1	Transfer Home Position Sensor	D9
Solenoids			
Symbol	Index No.	Description	PtoP
SOL1	18	Pickup Solenoid	E2
Switches			
Symbol	Index No.	Description	PtoP
SW1	11	Tray Set Switch (R)	G2
SW2	10	Transport Cover Open/Close Switch	C9
SW3	2	Left Tray Set Switch	D9
PCB			
Symbol	Index No.	Description	PtoP
PCB1	5	Controller Board	A6
Others			
Symbol	Index No.	Description	PtoP
H1	13	Anti-Condensation Heater	C3

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