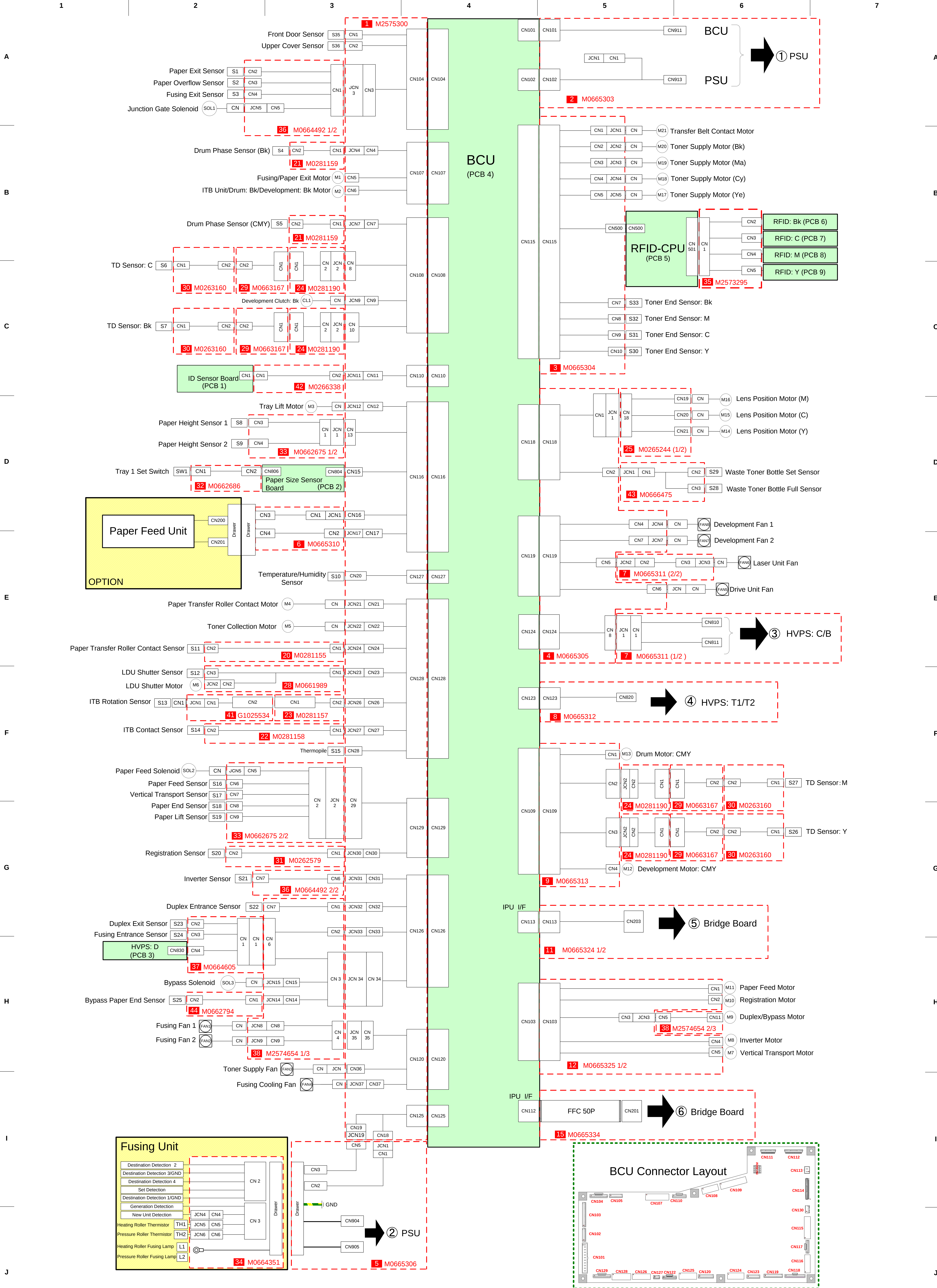
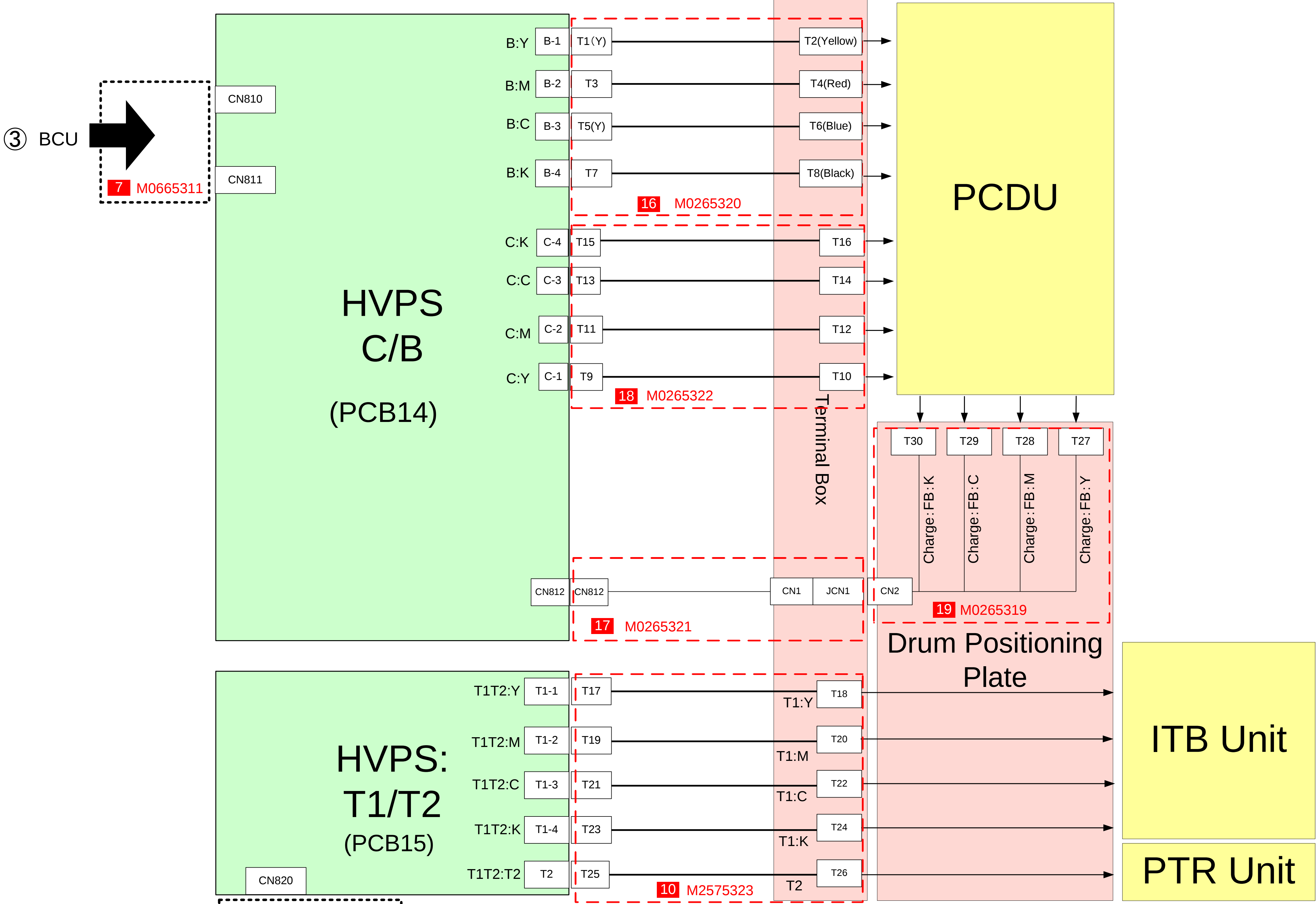
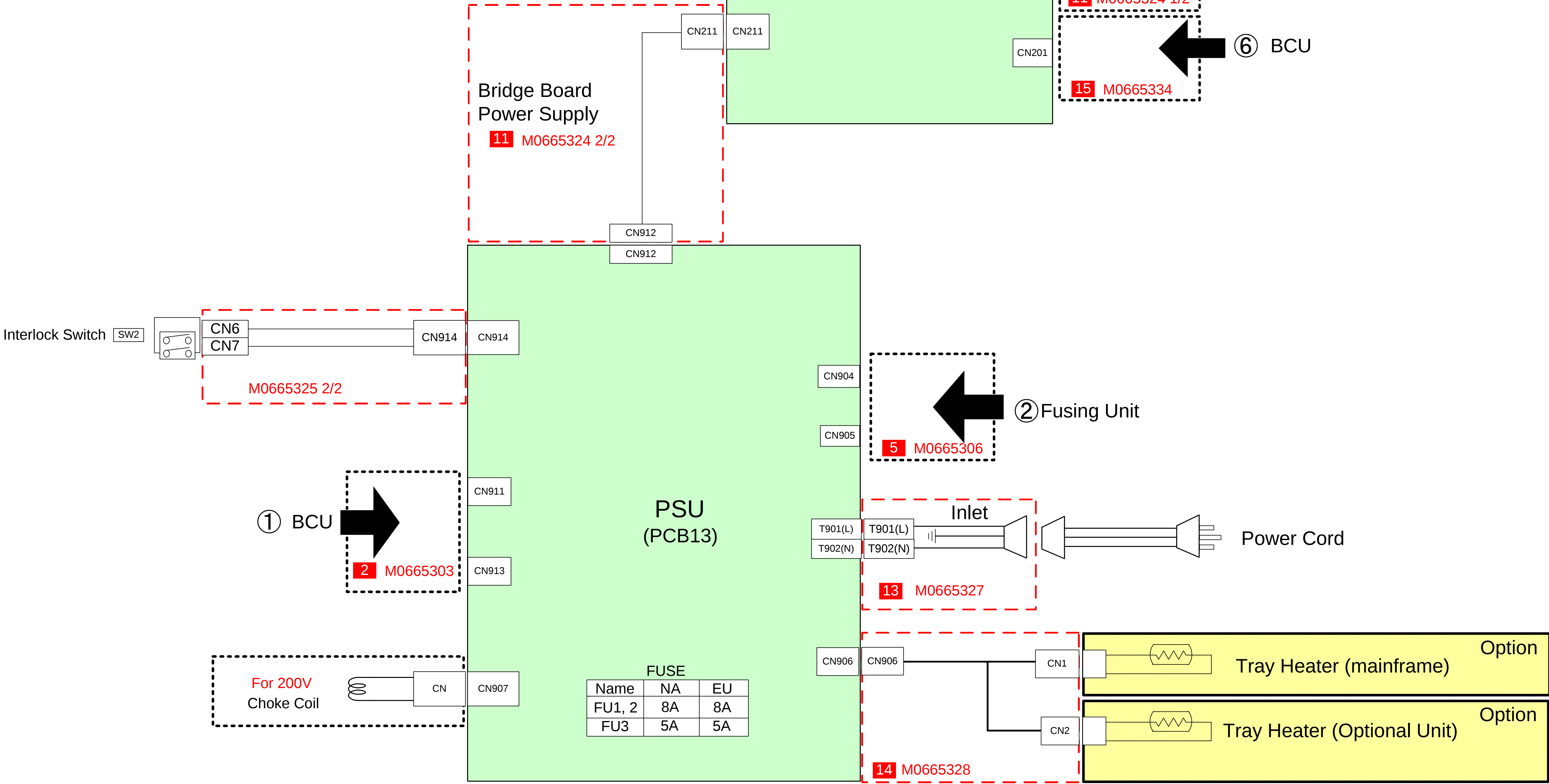
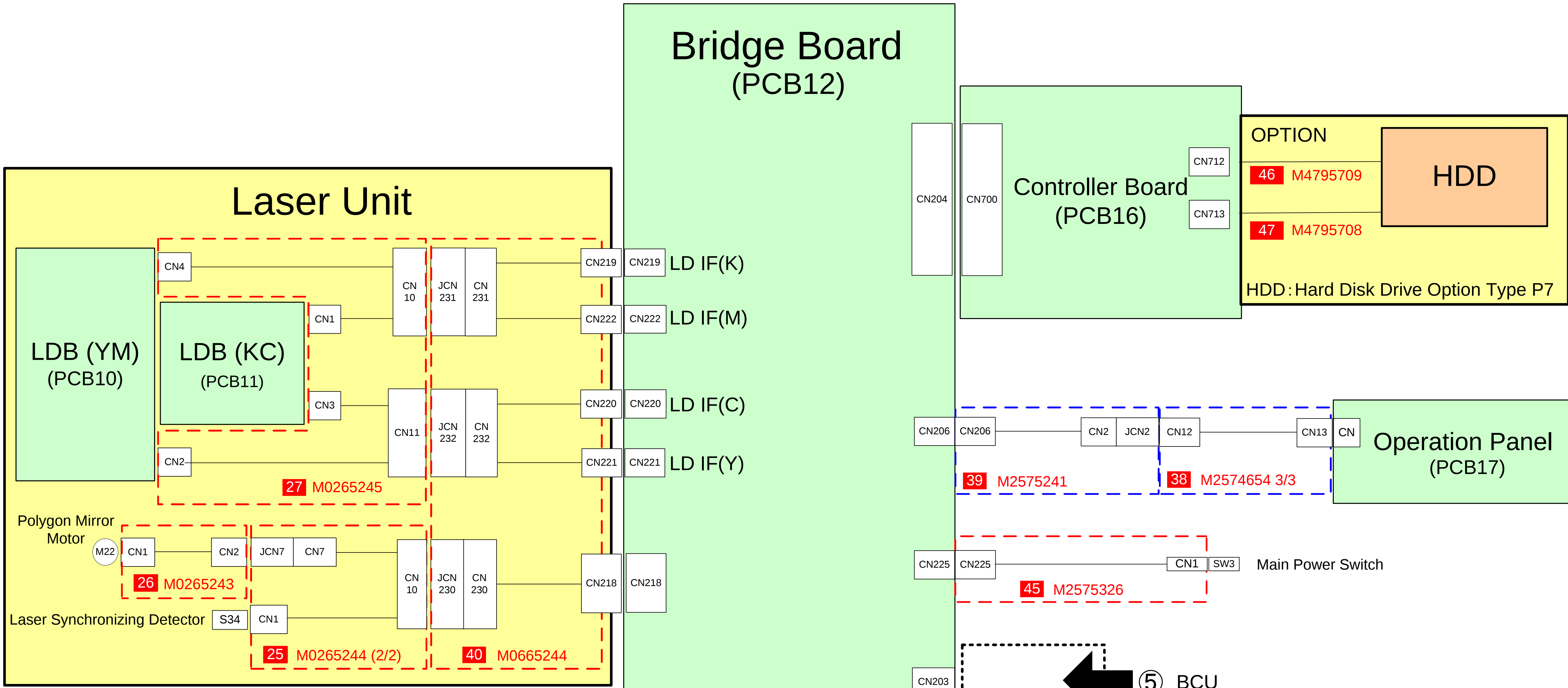




M0AC/M257 POINT TO POINT DIAGRAM (1/2)



M0AC/M257 POINT TO POINT DIAGRAM (2/2)

Harness Pin Assign Lists

Connector (From)			Signal Information				Connector (To)		
No	To Connector	Pin No	Signal Name	Direction	L	H	No	To Connector	Pin No
CN104	BCU CN104	1	Duplex Unit Open/Close Detection: Set Detection	←	Close	Open	CN1	Duplex Unit Open/Close Detection	2
		2	Duplex Unit Open/Close Detection: GND	G					1
		3	Top Cover Open/Close Detection	←	Set	Not Set	CN2	Top Cover Open/Close Detection	2
		4	Top Cover Open/Close Detection: GND	G					1
		5	Paper Exit Sensor: GND	G			JCN3	Paper Exit UNIT	13
		6	Paper Exit Sensor: Output	←	Detect	Not Detect			12
		7	Paper Exit Sensor: +5V	P					11
		8	Paper Overflow Sensor: GND	G					10
		9	Paper Overflow Sensor: Output	←	Not Full	Full			9
		10	Paper Overflow Sensor: +5V	P					8
		11	Fusing Exit Sensor: 5V	P					7
		12	Fusing Exit Sensor: Output	←	Not Detect	Detect			6
		13	Fusing Exit Sensor: GND	G					5
		14	Junction Gate Solenoid: +24VS1	P	ON	OFF			4
		15	Junction Gate Solenoid: Control	→					3
		16	N.C.	N					2
		17	N.C.	N					1
CN107	BCU CN107	1	Drum Phase Sensor: Bk: GND	G			JCN4	Drum Phase Sensor: Bk:	3
		2	Drum Phase Sensor: Bk: Output	←	No Feeler	Feeler			2
		3	Drum Phase Sensor: Bk: 5V	P					1
		4	Fusing/Paper Exit Motor: Gain Change	→	High Speed	Low Speed	CN5	Fusing/Paper Exit Motor	12
		5	Fusing/Paper Exit Motor: CLOCK	→					11
		6	Fusing/Paper Exit Motor: Brake	→	Brake	Not Brake			10
		7	Fusing/Paper Exit Motor: CW/CCW	→	CCW	CW			9
		8	Fusing/Paper Exit Motor: Start/Stop	→	Start	Stop			8
		9	Fusing/Paper Exit Motor: LOCK	←	Normal	Trouble			7
		10	Fusing/Paper Exit Motor: 5V	P					6
		11	Fusing/Paper Exit Motor: GND(5V)	G					5
		12	Fusing/Paper Exit Motor: GND(24V)	G					4
		13	Fusing/Paper Exit Motor: GND(24V)	G					3
		14	Fusing/Paper Exit Motor: 24VS1	P					2
		15	Fusing/Paper Exit Motor: 24VS1	P					1
		16	N.C.	N			CN6	ITB Unit/Drum: K/Developme nt	-
		17	N.C.	N					-
		18	N.C.	N					-
		19	ITB Unit/Drum: K/Development: K Motor: Control Change	→					14
		20	ITB Unit/Drum: K/Development: K Motor: Encoder CLOCK	→					13
		21	ITB Unit/Drum: K/Development: K Motor: Gain Change	→	High Speed	Low Speed			12
		22	ITB Unit/Drum: K/Development: K Motor: CLOCK	→					11
		23	ITB Unit/Drum: K/Development: K Motor: Brake	→	Brake	Not Brake			10
		24	ITB Unit/Drum: K/Development: K Motor: CW/CCW	→	CCW	CW			9
		25	ITB Unit/Drum: K/Development: K Motor: Start/Stop	→	Start	Stop			8
		26	ITB Unit/Drum: K/Development: K Motor: LOCK	←	Normal	Trouble			7
		27	ITB Unit/Drum: K/Development: K Motor: 5V	P					6
		28	ITB Unit/Drum: K/Development: K Motor: GND(5V)	G					5
		29	ITB Unit/Drum: K/Development: K Motor: GND(24V)	G					4
		30	ITB Unit/Drum: K/Development: K Motor: GND(24V)	G					3
		31	ITB Unit/Drum: K/Development: K Motor: 24VS1	P					2
		32	ITB Unit/Drum: K/Development: K Motor: 24VS1	P					1
		33	N.C.	N			JCN7	Drum Phase Sensor: CMY	-
		34	N.C.	N					-
CN108	BCU CN108	1	Drum Phase Sensor: CMY: GND	G					3
		2	Drum Phase Sensor: CMY: Output	←	No Feeler	Feeler			2
		3	Drum Phase Sensor: CMY: 5V	P					1
		4	PCL: C: +24VS1	P			CN8	TD Sensor: C	8
		5	PCL: CL: Control	→	ON	OFF			7
		6	TD Sensor: C: SCL	→					5
		7	TD Sensor: C: SDA	↔					6
		8	TD Sensor: C: PWM	→	OFF	ON			4
		9	TD Sensor: C: 5V(For TD Sensor)	P	ON/OFF when 5V_HST				3
		10	TD Sensor: C: FB	←					2
		11	TD Sensor: C: GND	G					1
		12	Development Clutch: K: 24VS1	P			JCN9	Development Clutch: K:	2
		13	Development Clutch: K: Control	→	ON	OFF			1
		14	N.C.	N			CN10	TD Sensor: K	-
		15	PCL: K: +24VS1	P					8
		16	PCL: K: Control	→	ON	OFF			7
		17	TD Sensor: K: SCL	→					5
		18	TD Sensor: K: SDA	↔					6
		19	TD Sensor: K: PWM	→	OFF	ON			4
		20	TD Sensor: K: 5V(For TD Sensor)	P	ON/OFF when 5V_HST				3
		21	TD Sensor: K: FB	←					2
		22	TD Sensor: K: GND	G					1
CN110	BCU CN110	1	ID Sensor:FB:ReflectionRe/Bk	←			JCN11	ID Sensor	13
		2	ID Sensor: LED Drive: PWM: Re/Bk	→	OFF	ON			12
		3	ID Sensor: FB: Diffused Reflection: Cy	←					11
		4	ID Sensor: FB: Reflection: Ce/Cy	←					10
		5	ID Sensor: LED Drive: PWM: Ce/Cy	→	OFF	ON			9
		6	ID Sensor: FB: Diffused Reflection: M	←					8
		7	ID Sensor: FB: Reflection: M	←					7
		8	ID Sensor: LED Drive: PWM: M	→	OFF	ON			6
		9	ID Sensor: FB: Diffused Reflection: Y	←					5
		10	ID Sensor: FB: Reflection: Fr/Y	←					4
		11	ID Sensor: LED Drive: PWM: Fr/Y	→	OFF	ON			3
		12	ID Sensor: GND	G					2
		13	ID Sensor: 5V	P					1
CN116	BCU CN116	A1	N.C.	N			JCN12	Tray Lift Motor	-
		A2	N.C.	N					-
		A3	Tray Lift Motor: OUT1A	→					1
		A4	Tray Lift Motor: OUT2A	→					2
		A5	Paper Height Sensor1: GND	G			CN13	Paper Height Sensor1 Paper Height Sensor2	6
		A6	Paper Height Sensor1: Output	←					5
		A7	Paper Height Sensor1: +5V	P					4
		A8	Paper Height Sensor2: GND	G					3
		A9	Paper Height Sensor2: Output	←					2
		A10	Paper Height Sensor2: +5V	P					1

Connector (From)			Signal Information				Connector (To)			
No	To Connector	Pin No	Signal Name	Direction	L	H	No	To Connector	Pin No	
CN116	BCU CN116	A11	Paper Size Sensor1	←			CN15	Paper Size Sensor Board	6	
		A12	Paper Size Sensor2	←					5	
		A13	Paper Size Sensor3	←					4	
		A14	Paper Size Sensor: GND	G					3	
		A15	Tray1 Set Sensor	←					2	
		A16	Paper Size Sensor: +5V	P					1	
		B1	N.C.	N			CN16	Paper Feed Unit	8	
		B2	Paper Feed Unit: RXD	←					7	
		B3	Paper Feed Unit: TXD	→					6	
		B4	Paper Feed Unit: GND	G					5	
		B5	Paper Feed Unit: +5V	P					4	
		B6	Paper Feed Unit: GND	G					3	
		B7	Paper Feed Unit: GND	G					2	
		B8	Paper Feed Unit: GND	G					1	
		B9	Paper Feed Unit: GND	G					JCN17	Paper Feed Unit
		B10	Paper Feed Unit: GND	G			6			
		B11	Paper Feed Unit: +24V	P			5			
		B12	Paper Feed Unit: +24V	P			4			
		B13	Paper Feed Unit: +24V	P			3			
B14	Paper Feed Unit: +24V	P			2					
B15	Paper Feed Unit: +24V	P			1					
		B16	N.C.	N				-		
CN125	BCU CN125	1	Fusing Generational Detection: Generational Detection	←	1st Generation	2nd Generation	CN18	Fusing Unit	10	
		2	Fusing Generational Detection: GND	G					9	
		3	Fusing New Unit Detection: New Unit Detection	←	New Unit	Old Unit			8	
		4	Fusing New Unit Detection: GND	G					7	
		5	Termistor: Heating: FB: Edge	←					6	
		6	Termistor: Heating: GND	G					5	
		7	Termistor: Heating: FB: Edge: Atmosphere	←					4	
		8	Termistor: Heating: GND	G					3	
		9	Termistor: Pressure: FB: Edge	←					2	
		10	Termistor: Pressure: GND	G					1	
		11	N.C.	N						-
		12	N.C.	N						-
		13	N.C.	N						-
		14	N.C.	N				-		
		15	N.C.	N			JCN19	Fusing Unit	9	
		16	GND	G					8	
		17	Fusing: Destination/Machine Detection 2	←					7	
		18	Fusing: Destination/Machine Detection 3	←					6	
		19	Fusing: Destination/Machine Detection 4	←					5	
		20	Fusing : Destinatin/Machine Detection: GND	G					4	
		21	Fusing: Setting Detection	←	Set	Not Set			3	
		22	Fusing: Setting Detection: GND	G					2	
		23	Fusing: Destination/Machine Detection 1	←					1	
		24	Fusing: Destination/Machine Detection GND	G						
CN127	BCU CN127	1	Temperature/Humidity Sensor: FB(Temperature)	←			CN20	Temperature/ Humidity Sensor	4	
		2	Temperature/Humidity Sensor: GND	G					3	
		3	Temperature/Humidity Sensor: FB(Humidity)	←					2	
		4	Temperature/Humidity Sensor: +5V	P					1	
CN128	BCU CN128	1	Paper Transfer Roller Contact Motor: OUT1A	→			JCN21	Paper Transfer Roller Contact	2	
		2	Paper Transfer Roller Contact Motor: OUT1B	→					1	
		3	Toner Collection Motor Connecting Detection: GND	G			JCN22	Toner Collection Motor	4	
		4	Toner Collection Motor: OUT1B	→					3	
		5	Toner Collection Motor: OUT1A	→					2	
		6	Toner Collection Motor Connecting Detection	←	Connect	Not Connect	1			
		7	Paper Transfer Roller Contact Sensor: GND	G			JCN24	Paper Transfer Roller Contact Sensor	3	
		8	Paper Transfer Roller Contact Sensor: Output	←	Not Contact	Contact			2	
		9	Paper Transfer Roller Contact Sensor: 5V	P					1	
		10	LDU Shutter Sensor: GND	G			JCN23	LDU Shutter Motor/Sensor	5	
		11	LDU Shutter Sensor: Output	←	Not HP	HP			4	
		12	LDU Shutter Sensor: 5V	P					3	
		13	LDU Shutter Motor: OUT1A	→					2	
		14	LDU Shutter Motor: OUT1B	→				1		
		15	ITB Unit: New Unit Detection	←	Old Unit	New Unit	JCN26	ITB Unit	6	
		16	ITB Unit: 24VS2	P					5	
		17	ITB Rotaion Sensor: GND	G					4	
		18	ITB Rotaion Sensor: Output	←					3	
		19	ITB Rotaion Sensor: 5V	P				2		
		-	N.C.	N				1		
		20	Transfer Belt Contact Sensor: GND	G			JCN27	Transfer Belt Contact Sensor	3	
		21	Transfer Belt Contact Sensor: Output	←	Not Contact	Contact			2	
		22	Transfer Belt Contact Sensor: +5V	P					1	
		23	Thermopile: N.C	N			CN28	Thermopile	4	
		24	Thermopile: +5V	P					3	
		25	Thermopile: GND	G					2	
		26	Thermopile: FB	←					1	
		27	N.C.	N					-	
28	N.C.	N					-			
CN129	BCU CN129	1	Paper Feed Solenoid: +24VS2	P			CN29	Paper Feed Unit	14	
		2	Paper Feed Solenoid: Control	→	ON	OFF			13	
		3	Paper Feed Sensor: GND	G					12	
		4	Paper Feed Sensor: Output	←	Detect	Not Detect			11	
		5	Paper Feed Sensor: +5V	P			10			
		6	Vertical Transport Sensor: GND	G			9			
		7	Vertical Transport Sensor: Output	←	Detect	Not Detect	8			
		8	Vertical Transport Sensor: +5V	P			7			
		9	Paper End Sensor: GND	G			6			
		10	Paper End Sensor: Output	←	Detect	Not Detect	5			
		11	Paper End Sensor: +5V	P			4			
		12	Paper Lift Sensor: GND	G			3			
		13	Paper Lift Sensor: Output	←	Detect	Not Detect	2			
		14	Paper Lift Sensor: +5V	P			1			
		15	Registration Sensor: GND	G			JCN30		Registration Sensor	3
		16	Registration Sensor: Output	←	Detect	Not Detect				2
				17	Registration Sensor: +5V	P			1	

Connector (From)			Signal Information				Connector (To)		
No	To Connector	Pin No	Signal Name	Direction	L	H	No	To Connector	Pin No
CN126	BCU CN126	A1	Inverter Sensor: GND	G			JCN31	Inverter Sensor	3
		A2	Inverter Sensor: Output	←	Detect	Not Detect			2
		A3	Inverter Sensor: +5V	P					1
		A4	N.C.	N					-
		A5	N.C.	N					-
		A6	N.C.	N					-
		A7	Duplex Entrance Sensor: GND	G			JCN32	Duplex Entrance Sensor	3
		A8	Duplex Entrance Sensor: Output	←	Detect	Not Detect			2
		A9	Duplex Entrance Sensor: 5V	P					1
		A10	Duplex Exit Sensor: GND	G			JCN33	Duplex Exit Sensor/ Fusing Entrance Sensor	6
		A11	Duplex Exit Sensor: Output	←	Detect	Not Detect			5
		A12	Duplex Exit Sensor: +5V	P					4
		A13	Fusing Entrance Sensor: GND	G					3
		A14	Fusing Entrance Sensor: Output	←	Detect	Not Detect			2
		A15	Fusing Entrance Sensor: +5V	P					1
		B1	HVPS: D: SC Detection	←	Trouble	Normal	JCN34	HVPS: D/Bypass Solenoid/Bypass Paper End Sensor/Bypass Paper End Detection	9
		B2	HVPS: D: Separation PWM	→	OFF	ON			8
		B3	HVPS: D: GND	G					7
		B4	HVPS: D: 24VS2	P					6
		B5	Bypass Solenoid: +24VS2	P					5
		B6	Bypass Solenoid: Control	→	ON	OFF			4
		B7	Bypass Paper End Sensor: GND	G					3
		B8	Bypass Paper End Sensor: Output	←	Not End	End			2
		B9	Bypass Paper End Sensor: +5V	P					1
		B10	N.C.	N					-
		B11	N.C.	N					-
		B12	N.C.	N					-
		B13	N.C.	N					-
		B14	N.C.	N					-
		B15	N.C.	N					-
CN120	BCU CN120	1	Fusing Fan 1: Control	→	OFF	ON	JCN35	Fusing Fan 1/ Fusing Fan 2	6
		2	Fusing Fan 1: Locking Detection	←	Normal	Trouble			5
		3	Fusing Fan 1: GND	G					4
		4	Fusing Fan 2: Control	→	OFF	ON			3
		5	Fusing Fan 2: Locking Detection	←	Normal	Trouble			2
		6	Fusing Fan 2: GND	G					1
		7	Toner Supply Fan: Control	→	OFF	ON	CN36	Toner Supply Fan	3
		8	Toner Supply Fan: Locking Detection	←	Normal	Trouble			2
		9	Toner Supply Fan: GND	G					1
		10	Fusing Cooling Fan: Control	→	OFF	ON	JCN37	Fusing Cooling Fan	3
		11	Fusing Cooling Fan: Locking Detection	←	Normal	Trouble			2
		12	Fusing Cooling Fan: GND	G					1
CN101	BCU CN101	1	24VS1	P			CN911	PSU CN911	1
		2	24VS1	P					2
		3	GND	G					3
		4	GND	G					4
		5	5V	P					8
		6	GND	G					9
		7	24VS2	P					5
		8	24VS2	P					6
		9	GND	G					7
		10	24V	P					10
		11	24V	P					11
JCN1	Relay Tool	1	Relay Tool (24V)	P			CN913	PSU 913	12
		2	GND	G					11
		3	Relay Tool (Trigger)	→					10
CN102	BCU CN102	1	N.C.	N					-
		2	PSU Cooling Fan Control Signal	→	OFF	ON			9
		3	Tray Heater Relay Trigger	→	OFF	ON			8
		4	Fusing Lamp Relay Trigger	→	OFF	ON			7
		5	Pressure Heater: Triac: Control	→	OFF	ON			6
		6	Heating Lamp: Triac: Edge	→	OFF	ON			5
		7	Heating Lamp: Triac: Center	→	OFF	ON			4
		8	Zero-cross Signal	←					3
		9	GND	G					2
		10	24VS (For Fusing Lamp Relay)	P					1
		11	Transfer Belt Contact Motor: OUT1A	→			JCN1	Transfer Belt Contact	2
CN115	BCU CN115	2	Transfer Belt Contact Motor: OUT1B	→					1
		3	Toner Supply Motor: K: OUT1A	→			JCN2	Toner Supply Motor: K	2
		4	Toner Supply Motor: K: OUT1B	→					1
		5	Toner Supply Motor: M: OUT1A	→			JCN3	Toner Supply Motor: M	2
		6	Toner Supply Motor: M: OUT1B	→					1
		7	Toner Supply Motor: C: OUT2A	→			JCN4	Toner Supply Motor: C	2
		8	Toner Supply Motor: C: OUT2B	→					1
		9	Toner Supply Motor: Y: OUT2A	→			JCN5	Toner Supply Motor: Y	2
		10	Toner Supply Motor: Y: OUT2B	→					1
		11	RFID : GND	G			CN500	RFID	6
		12	RFID : +5V	P					5
		13	RFID : TXD	→					4
		14	RFID : RXD	←					3
		15	RFID : Reset	→	Reset	Not Reset			2
		16	RFID : GND	G					1
		17	Toner End Sensor: K: GND	G			CN7	Toner End Sensor: K	3
		18	Toner End Sensor: K: Output	←	Toner Empty	Toner Remaining			2
		19	Toner End Sensor: K: GND	P	ON/OFF when 5V_TE				1
		20	Toner End Sensor: M: GND	G			CN8	Toner End Sensor: M	3
		21	Toner End Sensor: M: Output	←	Toner Empty	Toner Remaining			2
		22	Toner End Sensor: M: +5V_TE	P	ON/OFF when 5V_TE				1
		23	Toner End Sensor: C: GND	G			CN9	Toner End Sensor: C	3
		24	Toner End Sensor: C: Output	←	Toner Empty	Toner Remaining			2
		25	Toner End Sensor: C: +5V_TE	P	ON/OFF when 5V_TE				1
		26	Toner End Sensor: Y: GND	G			CN10	Toner End Sensor: Y	3
		27	Toner End Sensor: Y: Output	←	Toner Empty	Toner Remaining			2
		28	Toner End Sensor: Y: +5V_TE	P	ON/OFF when 5V_TE				1
		29	N.C.	N					-
		30	N.C.	N					-
		31	N.C.	N					-
		32	N.C.	N					-

Connector (From)			Signal Information				Connector (To)			
No	To Connector	Pin No	Signal Name	Direction	L	H	No	To Connector	Pin No	
CN118	BCU CN118	1	Lens Positioning Motor: M: /A Phase	→	Excitation OFF	Excitation ON	JCN1	Lens Positioning Motor	15	
		2	Lens Positioning Motor: M: /B Phase	→	Excitation OFF	Excitation ON			14	
		3	Lens Positioning Motor: M: +24V	P						13
		4	Lens Positioning Motor: M: B Phase	→	Excitation OFF	Excitation ON			12	
		5	Lens Positioning Motor: M: A Phase	→	Excitation OFF	Excitation ON			11	
		6	Lens Positioning Motor: C: /A Phase	→	Excitation OFF	Excitation ON			10	
		7	Lens Positioning Motor: C: /B Phase	→	Excitation OFF	Excitation ON			9	
		8	Lens Positioning Motor: C: +24V	P					8	
		9	Lens Positioning Motor: C: B Phase	→	Excitation OFF	Excitation ON			7	
		10	Lens Positioning Motor: C: A Phase	→	Excitation OFF	Excitation ON			6	
		11	Lens Positioning Motor: Y: /A Phase	→	Excitation OFF	Excitation ON			5	
		12	Lens Positioning Motor: Y: /B Phase	→	Excitation OFF	Excitation ON			4	
		13	Lens Positioning Motor: Y: +24V	P					3	
		14	Lens Positioning Motor: Y: B Phase	→	Excitation OFF	Excitation ON			2	
		15	Lens Positioning Motor: Y: A Phase	→	Excitation OFF	Excitation ON			1	
		16	Toner Collection Bottle Set Sensor: Setting Detection	←	Set	Not Set	CN2	Toner Collection Bottle Set Sensor	5	
		17	Toner Collection Bottle Set Sensor: GND	G					4	
		18	Toner Collection Bottle Full Sensor: GND	G					3	
		19	Toner Collection Bottle Full Sensor: Output	←	Normal	Near Full			2	
		20	Toner Collection Bottle Full Sensor: 5V	P					1	
CN119	BCU CN119	1	Development Fan: Control	→	OFF	ON	JCN4	Development Fan	3	
		2	Development Fan: Locking Detection	←	Normal	Trouble	2			
		3	Development Fan: GND	G			1			
		4	Development Fan2: Control	→	OFF	ON	JCN7	Development Fan2	3	
		5	Development Fan2: Locking Detection	←	Normal	Trouble			2	
		6	Development Fan2: GND	G					1	
		7	Laser Unit Fan: Control	→	OFF	ON	CN5	Laser Unit Fan	3	
		8	Laser Unit Fan: Locking Detection	←	Normal	Trouble			2	
		9	Laser Unit Fan: GND	G					1	
		10	Drive Unit Fan: Control	→	OFF	ON	CN6	Drive Unit Fan	3	
		11	Drive Unit Fan: Locking Detection	←	Normal	Trouble			2	
		12	Drive Unit Fan: GND	G					1	
		13	N.C.	N					-	
		14	N.C.	N					-	
		15	N.C.	N					-	
CN124	BCU CN124	1	HVPS: C/B: SC Detection	←	Trouble	Normal	CN8	HVPS: C/B	11	
		2	HVPS: C/B: Charge AC: FB: K	←					10	
		3	HVPS: C/B: Charge AC: FB: C	←					9	
		4	HVPS: C/B: Charge AC: FB: M	←					8	
		5	HVPS: C/B: Charge AC: FB: Y	←					7	
		6	HVPS: C/B: Development: PWM: K	→	OFF	ON			6	
		7	HVPS: C/B: Development: PWM: C	→	OFF	ON			5	
		8	HVPS: C/B: Development: PWM: M	→	OFF	ON			4	
		9	HVPS: C/B: Development: PWM: Y	→	OFF	ON			3	
		10	HVPS: C/B: GND	G					2	
		11	HVPS: C/B: +24VS2	P					1	
		12	HVPS: C/B: Charge AC: PWM: K	→	OFF	ON			22	
		13	HVPS: C/B: Charge AC: PWM: C	→	OFF	ON			21	
		14	HVPS: C/B: Charge AC: PWM: M	→	OFF	ON			20	
		15	HVPS: C/B: Charge AC: PWM: Y	→	OFF	ON			19	
		16	HVPS: C/B: Charge AC: Trigger	→					18	
		17	HVPS: C/B: Charge AC: Basis CLK	→					17	
		18	HVPS: C/B: Charge DC: PWM: K	→	OFF	ON			16	
		19	HVPS: C/B: Charge DC: PWM: C	→	OFF	ON			15	
		20	HVPS: C/B: Charge DC: PWM: M	→	OFF	ON			14	
		21	HVPS: C/B: Charge DC: PWM: Y	→	OFF	ON			13	
		22	N.C.	N					12	
JCN1	[1]M2575300 CN18	1	Fusing Generational Detection: Generational Detection	←	1st Generation	2nd Generation	CN2 (CN4Drawer)	Fusing Unit	13	
		2	Fusing Generational Detection: GND	G					12	
		3	Fusing New Unit Detection: New Unit Detection	←	New Unit	Old Unit			11	
		4	Fusing New Unit Detection: GND	G					10	
		5	Thermistor: Heating : FB: Edge	←					9	
		6	Thermistor: Heating : GND	G					8	
		7	Thermistor: Heating : FB: Edge: Atmosphere	←					7	
		8	Thermistor: Heating : GND	G					6	
		9	Thermistor: Pressure: FB: Edge	←					5	
		10	Thermistor: Pressure: GND	G					4	
		-	N.C.	N			3			
		-	N.C.	N			2			
		-	N.C.	N			1			
CN5	[1] M2575300 JCN19	1	GND	G			CN3 (CN4Drawer)	Fusing Unit	1	
		2	Fusing: Destination/Machine Detection 2	←					9	
		3	Fusing: Destination/Machine Detection 3	←					8	
		4	Fusing: Destination/Machine Detection 4	←					7	
		5	Fusing: Destination/Machine Detection: GND	G					6	
		6	Fusing: Setting Detection	←	Set	Not Set			5	
		7	Fusing: Setting Detection: GND	G					4	
		8	Fusing: Destination/Machine Detection 1	←					3	
		9	Fusing: Destination/Machine Detection: GND	G					2	
CN905	PSU	1	Pressure Roller Fusing lamp: N	P		CN4 (Drawer)	Fusing Unit	1		
CN904		3	Heating lanp: L(COMMON)	P				2		
T1	FG		Ground (CN4-3G)	FG				3G		
CN905	PSU	2	Pressure Roller Fusing lamp: L (COMMON)	P				4		
CN904		1	Heating lanp 1 : N(Center)	P				5		
		2	Heating lanp 2 : N(Edge)	P				6		
JCN1	[1]M2575300 CN16	1	N.C.	N			CN3	Paper Feed Unit	8	
		2	Paper Feed Unit: RXD	←					7	
		3	Paper Feed Unit: TXD	→					6	
		4	Paper Feed Unit: GND	G					5	
		5	Paper Feed Unit: +5V	P					4	
		6	Paper Feed Unit: GND	G					3	
		7	Paper Feed Unit: GND	G					2	
		8	Paper Feed Unit: GND	G					1	
CN2	[1]M2575300 JCN17	1	Paper Feed Unit: GND	G			CN4	Paper Feed Unit	7	
		2	Paper Feed Unit: GND	G					6	
		3	Paper Feed Unit: +24V	P					5	
		4	Paper Feed Unit: +24V	P					4	
		5	Paper Feed Unit: +24V	P					3	
		6	Paper Feed Unit: +24V	P					2	
		7	Paper Feed Unit: +24V	P					1	

Connector (From)			Signal Information				Connector (To)		
No	To Connector	Pin No	Signal Name	Direction	L	H	No	To Connector	Pin No
JCN1	[4]M0665305 CN8	1	HVPS: C/B: SC Detection	←	Trouble	Normal	CN810	HVPS: C/B	11
		2	HVPS: C/B: Charge AC: FB: K	←					10
		3	HVPS: C/B: Charge AC: FB: C	←					9
		4	HVPS: C/B: Charge AC: FB: M	←					8
		5	HVPS: C/B: Charge AC: FB: Y	←					7
		6	HVPS: C/B: Development: PWM: K	→	OFF	ON			6
		7	HVPS: C/B: Development: PWM: C	→	OFF	ON			5
		8	HVPS: C/B: Development: PWM: M	→	OFF	ON			4
		9	HVPS: C/B: Development: PWM: Y	→	OFF	ON			3
		10	HVPS: C/B: GND	G					2
		11	HVPS: C/B: +24VS2	P					1
		12	HVPS: C/B: Charge AC: PWM: K	→	OFF	ON	CN811	HVPS: C/B	10
		13	HVPS: C/B: Charge AC: PWM: C	→	OFF	ON			9
		14	HVPS: C/B: Charge AC: PWM: M	→	OFF	ON			8
		15	HVPS: C/B: Charge AC: PWM: Y	→	OFF	ON			7
		16	HVPS: C/B: Charge AC: Trigger	→					6
		17	HVPS: C/B: Charge AC: Basis CLK	→					5
		18	HVPS: C/B: Charge DC: PWM: K	→	OFF	ON			4
		19	HVPS: C/B: Charge DC: PWM: C	→	OFF	ON			3
		20	HVPS: C/B: Charge DC: PWM: M	→	OFF	ON			2
		21	HVPS: C/B: Charge DC: PWM: Y	→	OFF	ON			1
		22	N.C.	N					-
JCN2	[4]M0665305 CN5	1	Laser Unit Fan: Control	→	OFF	ON	JCN3	Laser Unit Fan	3
		2	Laser Unit Fan: Locking Detection	←	Normal	Trouble			2
		3	Laser Unit Fan: GND	G					1
CN123	BCU CN123	1	HVPS: T1/T2: SC Detection	←	Trouble	Normal	CN820	HVPS: T1/T2	10
		2	HVPS: T2: Paper Transfer-: FB	←					9
		3	HVPS: T2: Paper Transfer-: PWM	→	OFF	ON			8
		4	HVPS: T2: Paper Transfer+: PWM	→	OFF	ON			7
		5	HVPS: T1: Image Transfer: PWM: K	→	OFF	ON			6
		6	HVPS: T1: Image Transfer: PWM: C	→	OFF	ON			5
		7	HVPS: T1: Image Transfer: PWM: M	→	OFF	ON			4
		8	HVPS: T1: Image Transfer: PWM: Y	→	OFF	ON			3
		9	HVPS: T1/T2: GND	G					2
		10	HVPS: T1/T2: 24VS2	P					1
CN109	BCU CN109	1	Drum Motor: CMY: Gain Change	→	High Speed	Low Speed	CN1	Drum Motor	12
		2	Drum Motor: CMY: CLOCK	→					11
		3	Drum Motor: CMY: Brake	→	Brake	Not Brake			10
		4	Drum Motor: CMY: CW/CCW	→	CCW	CW			9
		5	Drum Motor: CMY: Start/Stop	→	Start	Stop			8
		6	Drum Motor: CMY: LOCK	←	Normal	Trouble			7
		7	Drum Motor: CMY: 5V	P					6
		8	Drum Motor: CMY: GND(5V)	G					5
		9	Drum Motor: CMY: GND(24V)	G					4
		10	Drum Motor: CMY: GND(24V)	G					3
		11	Drum Motor: CMY: 24VS1	P					2
		12	Drum Motor: CMY: 24VS1	P					1
		13	PCL: M: +24VS1	P			CN2	TD Sensor: M	8
		14	PCL: CL: Control	→	ON	OFF			7
		15	TD Sensor: M: SCL	→					5
		16	TD Sensor: M: SDA	↔					6
		17	TD Sensor: M: PWM	→	OFF	ON			4
		18	TD Sensor: M: 5V(For TD Sensor)	P	ON/OFF when 5V_HST				3
		19	TD Sensor: M: FB	←					2
		20	TD Sensor: M: GND	G					1
		21	PCL: Y: +24VS1	P			CN3	TD Sensor: Y	8
		22	PCL: Y: Control	→	ON	OFF			7
		23	TD Sensor: Y: SCL	→					5
		24	TD Sensor: Y: SDA	↔					6
		25	TD Sensor: Y: PWM	→	OFF	ON			4
		26	TD Sensor: Y: 5V(For TD Sensor)	P	ON/OFF when 5V_HST				3
		27	TD Sensor: Y: FB	←					2
		28	TD Sensor: Y: GND	G					1
		29	Development Motor: CMY: Gain Change	→	High Speed	Low Speed	CN4	Development Motor: CMY	12
		30	Development Motor: CMY: CLOCK	→					11
		31	Development Motor: CMY: Brake	→	Brake	Not Brake			10
		32	Development Motor: CMY: CW/CCW	→	CCW	CW			9
		33	Development Motor: CMY: Start/Stop	→	Start	Stop			8
		34	Development Motor: CMY: LOCK	←	Normal	Trouble			7
		35	Development Motor: CMY: 5V	P					6
		36	Development Motor: CMY: (5V)	G					5
		37	Development Motor: CMY: (24V)	G					4
		38	Development Motor: CMY: (24V)	G					3
		39	Development Motor: CMY: 24VS1	P					2
		40	Development Motor: CMY: 24VS1	P					1
T17	T1-1		Image Transfer T1: Y	P			T18	Image Transfer Unit	
T19	T1-2		Image Transfer T1: M	P			T20		
T21	T1-3		Image Transfer T1: C	P			T22		
T23	T1-4		Image Transfer T1: K	P			T24		
T25	T2		Paper Transfer T2	P			T26		
CN211	Bridge Board CN211	1	Power: LDD: +5VS	P			CN912	PSU CN912	13
		2	GND	G					12
		3	Power: Polygon: +24V	P					11
		4	GND	G					10
		5	Power: Engine: +5V	P					9
		-	N.C.	N					8
		6	GND	G					7
		7	GND	G					6
		8	5V Power Control Signal	→					5
		9	GND	G					4
		10	GND	G					3
		11	Power: Controller: +5VE	P					2
		12	Power: Controller: +5VE	P					1
CN203	Bridge Board CN203	1	GND	G			CN113	BCU CN113	2
		2	3.3V	P					1
CN103	BCU CN103	-	N.C.	N			CN1	Paper Feed Motor	6
		1	Paper Feed Motor: B Phase	→					5
		2	Paper Feed Motor: A Phase	→					4
		3	Paper Feed Motor: /B Phase	→					3
		4	Paper Feed Motor: /A Phase	→					2
		-	N.C.	N					1
		-	N.C.	N			CN2	Registration Motor	6
		5	Registration Motor: B Phase	→					5
		6	Registration Motor: A Phase	→					4
		7	Registration Motor: /B Phase	→					3
		8	Registration Motor: /A Phase	→					2
		-	N.C.	N					1
		9	Duplex/Bypass Motor: B Phase	→			JCN3	Duplex/Bypass Motor	4
		10	Duplex/Bypass Motor: A Phase	→					3
		11	Duplex/Bypass Motor: /B Phase	→					2
		12	Duplex/Bypass Motor: /A Phase	→					1

Connector (From)			Signal Information				Connector (To)		
No	To Connector	Pin No	Signal Name	Direction	L	H	No	To Connector	Pin No
CN103	BCU CN103	-	N.C.	N			CN4	Inverter Motor (Duplex)	6
		13	Inverter Motor: B Phase	→					5
		14	Inverter Motor: A Phase	→					4
		15	Inverter Motor: /B Phase	→					3
		16	Inverter Motor: /A Phase	→					2
		-	N.C.	N					1
		-	N.C.	N			CN5	Vertical Transport Motor	6
		17	Vertical Transport Motor: B Phase	→					5
		18	Vertical Transport Motor: A Phase	→					4
		19	Vertical Transport Motor: /B Phase	→					3
		20	Vertical Transport Motor: /A Phase	→					2
		-	N.C.	N					1
CN914	PSU CN914	1	24-ON	P			CN6	Interlock SW	1
		2	24-ON	P			CN7		1
		3	24VS1	P			CN6		2
		4	24VS2	P			CN7		2
Inlet	power cord	L	AC_IN L	P				PSU	T901
		N	AC_IN N	P					T902
		E	EARTH	G					T1
CN906	PSU CN906	1	N.C.	N					-
		2	Tray Heater(Mainframe): L	P			CN1	Tray Heater (Mainframe)	1
		3	Tray Heater(Optional): L	P			CN2	Tray Heater (Optional): L	1
		4	N.C.	N					-
		5	Tray Heater(Mainframe): N	P			CN1	Tray Heater (Mainframe)	2
		6	Tray Heater(Optional): N	P			CN2	Tray Heater (Optional): N	2
FFC	BCU CN112	1	data 15	↔			FFC	Bridge Board CN201	50
		2	data 14	↔					49
		3	data 13	↔					48
		4	data 12	↔					47
		5	data 11	↔					46
		6	data 10	↔					45
		7	data 9	↔					44
		8	data 8	↔					43
		9	GND	G					42
		10	data 7	↔					41
		11	data 6	↔					40
		12	data 5	↔					39
		13	data 4	↔					38
		14	data 3	↔					37
		15	data 2	↔					36
		16	data 1	↔					35
		17	data 0	↔					34
		18	GND	G					33
		19	address 30	→					32
		20	address 29	→					31
		21	address 28	→					30
		22	address 27	→					29
		23	address 26	→					28
		24	address 25	→					27
		25	address 24	→					26
		26	GND	G					25
		27	address 23	→					24
		28	address 22	→					23
		29	address 21	→					22
		30	address 20	→					21
		31	address 19	→					20
		32	address 18	→					19
		33	address 17	→					18
		34	address 31	→					17
35	GND	G			16				
36	IPU Data Bus Direction Change	→			15				
37	IPU Address Latch	→			14				
38	IPU Write	→			13				
39	IPU Read	→			12				
40	ASIC Chip Selection	→			11				
41	ASIC Interrupt	←			10				
42	IPU Reset Cancel OK	←			9				
43	IPU Reset	→			8				
44	ASIC sleep-canceling	→			7				
45	Wake-up Detection from energy save	←			6				
46	GAVD Serial Lock	→			5				
47	GND	G			4				
48	GAVD Serial Data OUT	→			3				
49	GAVD Chip Selection	→			2				
50	GAVD Serial Data IN	←			1				
T1	B-1		Development B: Y	P			T2 T4 T6 T8	PCDU	
T3	B-2		Development B: M	P					
T5	B-3		Development B: C	P					
T7	B-4		Development B: K	P					
CN812	HVPS CN812	1	Charge AC: Y: FB	←			JCN1	PCDU	4
		2	Charge AC: M: FB	←					3
		3	Charge AC: C: FB	←					2
		4	Charge AC: K: FB	←					1
T15	C-4		Charge C: K	P			T16 T14 T12 T10	PCDU	
T13	C-3		Charge C: C	P					
T11	C-2		Charge C: M	P					
T9	C-1		Charge C: Y	P					
CN2	JCN1	1	Charge C: Y: FB	←			T27 T28 T29 T30	PCDU	
		2	Charge C: M: FB	←					
		3	Charge C: C: FB	←					
		4	Charge C: K: FB	←					
CN1	[1]M2575300 JCN24	1	Paper Transfer Roller Contact Sensor: GND	G			CN2	Paper Transfer Roller Contact Sensor	3
		2	Paper Transfer Roller Contact Sensor: Output	←	Not Contact	Contact			2
		3	Paper Transfer Roller Contact Sensor: 5V	P					1
CN1	[1]M2575300 JCN4 JCN7	1	Drum Phase Sensor: GND	G			CN2	Drum Phase Sensor: Bk/Fc	3
		2	Drum Phase Sensor: Output	←	No Feeler	Feeler			2
		3	Drum Phase Sensor: 5V	P					1
CN1	[1]M2575300 JCN27	1	Transfer Belt Contact Sensor: GND	G			CN2	Transfer Belt Contact Sensor	3
		2	Transfer Belt Contact Sensor: Output	←	Not Contact	Contact			2
		3	Transfer Belt Contact Sensor: +5V	P					1
CN2	[1]M2575300 JCN26	1	ITB Unit: New Unit Detection	←	Old Unit	New Unit	CN1(Drawer)	ITB Unit	6
		2	ITB Unit: 24VS2	P					5
		3	ITB Rotation Sensor: GND	G					4
		4	ITB Rotation Sensor: Output	←					3
		5	ITB Rotation Sensor: 5V	P					2
		6	N.C.	N					1
JCN2	[1]M2575300 CN10 (K) /CN8 (C) /[9]M665313 CN2 (M) /CN3 (Y)	1	PCL: +24VS1	P			CN1(Drawer)	TD Sensor	8
		2	PCL: Control	→	ON	OFF			7
		3	TD Sensor: SCL	→					6
		4	TD Sensor: SDA	↔					5
		5	TD Sensor: PWM	→	OFF	ON			4
		6	TD Sensor: 5V(For TD Sensor)	P	ON/OFF when 5V_HST				3
		7	TD Sensor: FB	←					2
		8	TD Sensor: GND	G					1

Connector (From)		Signal Information				Connector (To)	
No	To Connector	Pin No	Signal Name	Direction	L	H	Pin No
CN18	[4]M0665305 JCN1	1	Lens Positioning Motor: M: /A Phase	→			CN19
		2	Lens Positioning Motor: M: /B Phase	→			
		3	Lens Positioning Motor: M: +24V	P			
		4	Lens Positioning Motor: M: B Phase	→			
		5	Lens Positioning Motor: M: A Phase	→			
		6	Lens Positioning Motor: C: /A Phase	→			CN20
		7	Lens Positioning Motor: C: /B Phase	→			
		8	Lens Positioning Motor: C: +24V	P			
		9	Lens Positioning Motor: C: B Phase	→			
		10	Lens Positioning Motor: C: A Phase	→			
		11	Lens Positioning Motor: Y: /A Phase	→			CN21
		12	Lens Positioning Motor: Y: /B Phase	→			
		13	Lens Positioning Motor: Y: +24V	P			
		14	Lens Positioning Motor: Y: B Phase	→			
		15	Lens Positioning Motor: Y: A Phase	→			
CN10	[40]M066524 4 JCN230	1	+24VB	P			JCN7
		2	GND	G			
		3	Polygon Mirror Motor On	→			
		4	Polygon Mirror Motor Ready	←			
		5	Polygon Mirror Motor Clock	→			CN1
		6	Bk, Ye Leading Edge Synchronizing Detection Signal	←			
		7	+5V	P			
		8	GND	G			
CN2	[25]M026524 4 JCN7	1	+24VB	P			CN1
		2	GND	G			
		3	Polygon Mirror Motor On	→			
		4	Polygon Mirror Motor Ready	←			
CN10	[40]M066524 4 JCN231	5	Polygon Mirror Motor Clock	→			CN4
		1	Ma: Light Adjustment DAC LD2	→	Analog	Analog	
		2	Ma: Light Adjustment DAC LD1	→	Analog	Analog	
		3	Ma: LD Extinction	→	OFF	ON	
		4	Ma: APC Control LD2	→	ON	OFF	
		5	Ma: APC Control LD1	→	ON	OFF	
		6	Ma LD2 Data-	→			
		7	Ma LD2 Data+	→			
		8	Ma LD1 Data-	→			
		9	Ma LD1 Data+	→			
		10	GND	G			
		11	GND	G			
		12	LD Power(+5VS)	P			
		13	LD Power(+5VS)	P			
		14	LD Power(+5VS)	P			
		15	Bk: Light Adjustment DAC LD2	→	Analog	Analog	CN1
		16	Bk: Light Adjustment DAC LD1	→	Analog	Analog	
		17	Bk: LD Extinction	→	OFF	ON	
		18	Bk: APC Control LD2	→	ON	OFF	
		19	Bk: APC Control LD1	→	ON	OFF	
		20	Bk LD2 Data-	→			
		21	Bk LD2 Data+	→			
		22	Bk LD1 Data-	→			
		23	Bk LD1 Data+	→			
		24	GND	G			
		25	GND	G			
		26	LD Power(+5VS)	P			
		27	LD Power(+5VS)	P			
		28	LD Power(+5VS)	P			
		-	N.C.	N			
CN11	[40]M066524 4 JCN232	1	GND	G			CN3
		2	GND	G			
		3	Cy: Light Adjustment DAC LD2	→	Analog	Analog	
		4	Cy: Light Adjustment DAC LD1	→	Analog	Analog	
		5	Bk, Cy: LD5V Power Error Detection	←	OFF	ON	
		6	Bk, Cy: LD Error Detection	←	ON	OFF	
		7	Cy: LD Extinction	→	OFF	ON	
		8	Cy: APC Control LD2	→	ON	OFF	
		9	Cy: APC Control LD1	→	ON	OFF	
		10	Cy LD2 Data-	→			
		11	Cy LD2 Data+	→			
		12	Cy LD1 Data-	→			
		13	Cy LD1 Data+	→			
		14	GND	G			
		15	GND	G			
		16	Ye: Light Adjustment DAC LD2	→	Analog	Analog	CN2
		17	Ye: Light Adjustment DAC LD1	→	Analog	Analog	
		18	Ye, Ma: LD Error Detection	←	ON	OFF	
		19	Ye: LD Extinction	→	OFF	ON	
		20	Ye: APC Control LD2	→	ON	OFF	
		21	Ye: APC Control LD1	→	ON	OFF	
		22	Ye LD2 Data-	→			
		23	Ye LD2 Data+	→			
		24	Ye LD1 Data-	→			
		25	Ye LD1 Data+	→			
		26	N.C.	N			
CN1	[1]M2575300 JCN23	1	LDU Shutter Sensor: GND	G			CN3
		2	LDU Shutter Sensor: Output	←	Not HP	HP	
		3	LDU Shutter Sensor: 5V	P			
		4	LDU Shutter Motor: OUT1A	→			
		5	LDU Shutter Motor: OUT1B	→			
CN1 (Drawer)	[24]M028119 0x4	1	TD Sensor: GND	G			CN2
		2	TD Sensor: FB	←			
		3	TD Sensor: 5V(For TD Sensor)	P	ON/OFF when 5V_HST		
		4	TD Sensor: PWM	→	OFF	ON	
		5	TD Sensor: SCL	→			
		6	TD Sensor: SDA	↔			
CN2	[29]M066316 7x4	1	TD Sensor: SCL	→			CN1
		2	TD Sensor: SDA	↔			
		3	TD Sensor: PWM	→	OFF	ON	
		4	TD Sensor: 5V(For TD Sensor)	P	ON/OFF when 5V_HST		
		5	TD Sensor: FB	←			
		6	TD Sensor: GND	G			
CN1	[1]M2575300 JCN30	1	Registration Sensor: GND	G			CN2
		2	Registration Sensor: Output	←	Detect	Not Detect	
		3	Registration Sensor: +5V	P			
CN1	Tray 1 Set Sensor	1	Tray 1 Set Sensor: GND	G			CN2
		2	Tray 1 Set Sensor: Output	←			
JCN1	[1]M2575300 CN13	1	Paper Hight Sensor 1: GND	G			CN3
		2	Paper Hight Sensor 1: Output	←			
		3	Paper Hight Sensor 1: +5V	P			
		4	Paper Hight Sensor 2: GND	G			CN4
		5	Paper Hight Sensor 2: Output	←			
		6	Paper Hight Sensor 2: +5V	P			

Connector (From)			Signal Information				Connector (To)		
No	To Connector	Pin No	Signal Name	Direction	L	H	No	To Connector	Pin No
JCN2	[1]M2575300 CN29	1	Paper Feed Solenoid: +24VS2	P			JCN5	Paper Feed Solenoid	2
		2	Paper Feed Solenoid: Control	→	ON	OFF	CN6	Paper Feed Sensor	3
		3	Paper Feed Sensor: GND	G					2
		4	Paper Feed Sensor: Output	←	Detect	Not Detect			1
		5	Paper Feed Sensor: +5V	P			CN7	Vertical Transport Sensor	3
		6	Vertical Transport Sensor: GND	G					2
		7	Vertical Transport Sensor: Output	←	Detect	Not Detect			1
		8	Vertical Transport Sensor: +5V	P			CN8	Paper End Sensor	3
		9	Paper End Sensor: GND	G					2
		10	Paper End Sensor: Output	←	Detect	Not Detect			1
		11	Paper End Sensor: +5V	P			CN9	Paper Lift Sensor	3
		12	Paper Lift Sensor: GND	G					2
		13	Paper Lift Sensor: Output	←	Detect	Not Detect			1
		14	Paper Lift Sensor: +5V	P					
CN1	[5]M0665306 CN4	1	Presser Roller Fusing Lamp: N	P			Heater	T1	
		2	Heating Lamp: L(COMMON)	P				T2	
		3G	Earth	FG				T3	
		4	Presser Roller Fusing Lamp: L (COMMON)	P				T4	
		5	Heating Lamp 1: N(Center)	P				T5	
		6	Heating Lamp 2: N(Edge)	P				T6	
CN2		1	Destination/Machine Detection: 2	←			-	-	
		2	Destination/Machine Detection: 3/GND	G			CN2	Destination/Machine Detection/Generational/New Unit Detection	4
		3	Destination/Machine Detection: 4	←			-	-	
		5	Setting Detection/GND	G			CN2	-	6
		7	Destination/Machine Detection: 1	←			-	-	
		8	Destination/Machine Detection:GND	G			-	-	
CN3		9	N.C.	N			-	-	
		1	Generational Detection/GND	G			CN3	-	2
		3	New Unit Detection	←	New Unit	Old Unit	CN4	-	2
		4	New Unit Detection: GND	G			CN4	-	1
		5	Thermistor: Heating: Edge	←			CN5	Thermistor	1
		6	Thermistor: Heating: Edge: GND	G			CN5	-	2
		7	Thermistor: Heating: Atmosphere	←			CN5	-	3
		8	Thermistor: Heating: Atmosphere: GND	G			CN5	-	4
		9	Thermistor: Pressure	←			CN6	-	2
		10	Thermistor: Pressure: GND	G			CN6	-	1
		11	N.C.	N					-
		12	N.C.	N					-
		13	N.C.	N					-
CN1	RFID-CPU CN501	1	GND	G			CN2	RFID-AFE_BK	5
		2	AFE: Sending Output	→					4
		3	AFE: Reception Input	←					3
		4	Clock Output 3	→					2
		5	+5V Power Supply	P					1
		6	Signal Ground	G			CN3	RFID-AFE_C	5
		7	AFE: Sending Output	→					4
		8	AFE: Reception Input	←					3
		9	Clock Output 2	→					2
		10	+5V Power Supply	P					1
		11	Signal Ground	G			CN4	RFID-AFE_M	5
		12	AFE: Sending Output	→					4
		13	AFE: Reception Input	←					3
		14	Clock Output 1	→					2
		15	+5V Power Supply	P					1
		16	Signal Ground	G			CN5	RFID-AFE_Y	5
		17	AFE: Sending Output	→					4
		18	AFE: Reception Input	←					3
		19	Clock Output 0	→					2
		20	+5V Power Supply	P					1
CN1	[1]M2575300 JCN3	1	Paper Exit Sensor: GND	G			CN2	Paper Exit Sensor	3
		2	Paper Exit Sensor: Output	←	Detect	Not Detect			2
		3	Paper Exit Sensor: +5V	P					1
		4	Paper Overflow Sensor: GND	G			CN3	Paper Overflow Sensor	3
		5	Paper Overflow Sensor: Output	←	Not Full	Full			2
		6	Paper Overflow Sensor: +5V	P					1
		7	Fusing Exit Sensor: 5V	P			CN4	Fusing Exit Sensor+J819	3
		8	Fusing Exit Sensor: Output	←	Not Detect	Detect			2
		9	Fusing Exit Sensor: GND	G					1
		10	Junction Gate Solenoid: +24VS1	P	ON	OFF	JCN5	Junction Gate Solenoid	2
		11	Junction Gate Solenoid: Control	→					1
		12	N.C.	N					-
		13	N.C.	N					-
CN6	[1]M2575300 JCN31	1	Inverter Sensor: GND	G			CN7	Inverter Sensor	3
		2	Inverter Sensor: Output	←	Detect	Not Detect			2
		3	Inverter Sensor: +5V	P					1
CN1	[38]M2574654 CN6	1	Duplex Exit Sensor: GND	G			CN2	Duplex Exit Sensor	3
		2	Duplex Exit Sensor: Output	←	Detect	Not Detect			2
		3	Duplex Exit Sensor: +5V	P					1
		4	Fusing Entrance Sensor: GND	G			CN3	Fusing Entrance Sensor	3
		5	Fusing Entrance Sensor: Output	←	Detect	Not Detect			2
		6	Fusing Entrance Sensor: +5V	P					1
		7	HVPS(D): SC Detection	→	Trouble	Normal	CN4	HVPS(D)	4
		8	HVPS(D): Separation PWM	←	OFF	ON			3
		9	HVPS(D): GND	G					2
		10	HVPS(D): 24VS2	P					1
CN1	[1]M2575300 JCN32	1	Duplex Entrance Sensor: GND	G			CN7	Duplex Entrance Sensor	3
		2	Duplex Entrance Sensor: Output	←	Detect	Not Detect			2
		3	Duplex Entrance Sensor: 5V	P					1
CN2	[1]M2575300 JCN33	1	Duplex Exit Sensor: GND	G			CN6	Duplex Exit Sensor/Fusing Entrance Sensor/HVPS(D)	10
		2	Duplex Exit Sensor: Output	←	Detect	Not Detect			9
		3	Duplex Exit Sensor: +5V	P					8
		4	Fusing Entrance Sensor: GND	G					7
		5	Fusing Entrance Sensor: Output	←	Detect	Not Detect			6
		6	Fusing Entrance Sensor: +5V	P					5
CN3	[1]M2575300 JCN34	1	HVPS(D): SC Detection	←	Trouble	Normal	JCN15	Bypass Solenoid	6
		2	HVPS(D): Separation PWM	→	OFF	ON			5
		3	HVPS(D): GND	G					4
		4	HVPS(D): 24VS2	P					3
		5	Bypass Solenoid: +24VS2	P			JCN14	Bypass Paper End Sensor	2
		6	Bypass Solenoid: Control	→	ON	OFF			1
		7	Bypass Paper End Sensor: GND	G					3
		8	Bypass Paper End Sensor: Output	←	Not End	End	JCN8	Fusing Fan 2	2
		9	Bypass Paper End Sensor: +5V	P					1
CN4	[1]M2575300 JCN35	1	Fusing Fan 1: Control	→	OFF	ON	JCN9	Fusing Fan 2	3
		2	Fusing Fan 1: Locking Detection	←	Normal	Trouble			2
		3	Fusing Fan 1: GND	G					1
		4	Fusing Fan 2: Control	→	OFF	ON	CN11	Duplex/Bypass Motor	3
		5	Fusing Fan 2: Locking Detection	←	Normal	Trouble			2
		6	Fusing Fan 2: GND	G					1
		-	N.C.	N				6	
CN5	[12]M0665325 JCN3	1	Duplex/Bypass Motor: B Phase	→					5
		2	Duplex/Bypass Motor: A Phase	→					4
		3	Duplex/Bypass Motor: /B Phase	→					3
		4	Duplex/Bypass Motor: /A Phase	→					2
		-	N.C.	N				1	

Connector (From)			Signal Information				Connector (To)		
No	To Connector	Pin No	Signal Name	Direction	L	H	No	To Connector	Pin No
CN12	[39]M257524 1 JCN2	1	GND	G			CN13	Operation Panel	13
		2	GND	G					12
		3	POK_OPE	←					11
		4	SDMODE	→					10
		5	LDET_IN	←					9
		6	P_ON_OPE	→					8
		7	ECO_SW	←					7
		8	Power: +5VX	P					6
		9	Sending and Reception Data Clock	←					5
		10	Power: +5VX	P					4
		11	Sending Data	→					3
		12	Power: +5VX	P					2
		13	Reception Data	←					1
CN206	Bridge Board CN206	T1	EARTH	FG			JCN2	Operation Panel	T2
		1	GND	G					13
		2	GND	G					12
		3	POK_OPE	←					11
		4	SDMODE	→					10
		5	LDET_IN	←					9
		6	P_ON_OPE	→					8
		7	ECO_SW	←					7
		8	Power: +5VX	P					6
		9	Sending and Reception Data Clock	→					5
		10	Power: +5VX	P					4
		11	Sending Data	→					3
		12	Power: +5VX	P					2
CN219	Bridge Board CN219	1	Bk: Light Adjustment DAC LD2	→	Analog	Analog	JCN231	LDB_Bk	28
		2	Bk: Light Adjustment DAC LD1	→	Analog	Analog			27
		3	Bk: LD Extinction	→	OFF	ON			26
		4	Bk: APC Control LD2	→	ON	OFF			25
		5	Bk: APC Control LD1	→	ON	OFF			24
		6	Bk LD2 Data-	→					23
		7	Bk LD2 Data+	→					22
		8	Bk LD1 Data-	→					21
		9	Bk LD1 Data+	→					20
		10	GND	G					19
		11	GND	G					18
		12	LD Power(+5VS)	P					17
		13	LD Power(+5VS)	P					16
CN222	Bridge Board CN222	1	Ma: Light Adjustment DAC LD2	→	Analog	Analog	JCN232	LDB_M	14
		2	Ma: Light Adjustment DAC LD1	→	Analog	Analog			13
		3	Ma: LD Extinction	→	OFF	ON			12
		4	Ma: APC Control LD2	→	ON	OFF			11
		5	Ma: APC Control LD1	→	ON	OFF			10
		6	Ma LD2 Data-	→					9
		7	Ma LD2 Data+	→					8
		8	Ma LD1 Data-	→					7
		9	Ma LD1 Data+	→					6
		10	GND	G					5
		11	GND	G					4
		12	LD Power(+5VS)	P					3
		13	LD Power(+5VS)	P					2
CN220	Bridge Board CN220	1	GND	G			JCN232	LDB_C	26
		2	GND	G					25
		3	Cy: Light Adjustment DAC LD2	→	Analog	Analog			24
		4	Cy: Light Adjustment DAC LD1	→	Analog	Analog			23
		5	Bk, Cy: LD5V Power Error Detection	←	OFF	ON			22
		6	Bk, Cy: LD Error Detection	←	ON	OFF			21
		7	Cy: LD Extinction	→	OFF	ON			20
		8	Cy: APC Control LD2	→	ON	OFF			19
		9	Cy: APC Control LD1	→	ON	OFF			18
		10	Cy LD2 Data-	→					17
		11	Cy LD2 Data+	→					16
		12	Cy LD1 Data-	→					15
		13	Cy LD1 Data+	→					14
CN221	Bridge Board CN221	1	GND	G			JCN232	LDB_Y	13
		2	GND	G					12
		3	Ye: Light Adjustment DAC LD2	→	Analog	Analog			11
		4	Ye: Light Adjustment DAC LD1	→	Analog	Analog			10
		5	Ye, Ma: LD Error Detection	←	ON	OFF			9
		6	Ye: LD Extinction	→	OFF	ON			8
		7	Ye: APC Control LD2	→	ON	OFF			7
		8	Ye: APC Control LD1	→	ON	OFF			6
		9	Ye LD2 Data-	→					5
		10	Ye LD2 Data+	→					4
		11	Ye LD1 Data-	→					3
		12	Ye LD1 Data+	→					2
		-	N.C	N					1
CN218	Bridge Board CN218	1	+24VB	P			JCN230	Polygon Mirror Motor	8
		2	GND	G					7
		3	Polygon Mirror Motor On	→					6
		4	Polygon Mirror Motor Ready	←					5
		5	Polygon Mirror Motor Clock	→					4
		6	B k , Ye Leading Edge Synchronizing Detection Signal	←					3
		7	+5V	P					2
		8	GND	G					1
CN2 (Drawer)	[23]M028115 7 CN1	1	ITB Unit: New Unit Detection	←	Old Unit	New Unit	JCN1	ITB Unit	6
		2	ITB Unit: 24VS2	P					5
		3	ITB Rotation Sensor: GND	G					4
		4	ITB Rotation Sensor: Output	←					3
		5	ITB Rotation Sensor: 5V	P					2
		6	N.C.	N					1
CN2	[1]M2575300 JCN11	1	ID Sensor: FB: Reflection: Re/Bk	←			CN1	ID Sensor	13
		2	ID Sensor: LED Drive: PWM: Re/Bk	→	OFF	ON			12
		3	ID Sensor: FB: Deffused Reflection: Cy	←					11
		4	ID Sensor: FB: Reflection: Ce/Cy	←					10
		5	ID Sensor: LED Drive: PWM: Ce/Cy	→	OFF	ON			9
		6	ID Sensor: FB: Deffused Reflection: M	←					8
		7	ID Sensor: FB: Reflection: M	←					7
		8	ID Sensor: LED Drive: PWM: M	→	OFF	ON			6
		9	ID Sensor: FB: Deffused Reflection: Y	←					5
		10	ID Sensor: FB: Reflection: Fr/Y	←					4
		11	ID Sensor: LED Drive: PWM: Fr/Y	→	OFF	ON			3
		12	ID Sensor: GND	G					2
		13	ID Sensor: 5V	P					1
JCN1	[4]M0665305 CN2	1	Toner Collection Bottle Set Sensor: Settling Detection	←	Set	Not Set	CN2	Toner Collection Bottle Set Sensor	2
		2	Toner Collection Bottle Set Sensor: GND	G					1
		3	Toner Collection Bottle Full Sensor: GND	G			CN3	Toner Collection Bottle Full Sensor	3
		4	Toner Collection Bottle Full Sensor: Output	←	Normal	Near Full			2
		5	Toner Collection Bottle Full Sensor: 5V	P					1

Connector (From)			Signal Information				Connector (To)		
No	To Connector	Pin No	Signal Name	Direction	L	H	No	To Connector	Pin No
CN1	[38]M257465 4 JCN14	1	Bypass Paper End Sensor: GND	G			CN2	Bypass Paper End Sensor	3
		2	Bypass Paper End Sensor: Output	←	Not End	End			2
		3	Bypass Paper End Sensor: +5V	P					1
CN225	Bridge Boad CN225	1	PW_BTN_N	→			CN1	DCSW	2
		2	GND	G					1
CN712	CTL	1	GND	G			-	HDD	1
		2	DATA A+	→	OFF	ON			2
		3	DATA A-	→	OFF	ON			3
		4	GND	G					4
		5	DATA B-	←	OFF	ON			5
		6	DATA B+	←	OFF	ON			6
		7	GND	G					7
CN713	CTL	-	N.C.	N			-	HDD	5
		1	GND	G					4
		2	5V	P					3
		3	HDD_DETECT	←	OFF	ON			2
		-	N.C.	N					1

M0AC/M257 ELECTRICAL COMPONENT LAYOUT (2/2)

Symbol	Index No.	Description	PtoP	Page
Motors				
M1	Fig10-2	Fusing/ Paper Exit Motor	B3	1/2
M2	Fig10-7	ITB Unit/ Drum: Bk/ Development: Bk Motor	B3	1/2
M3	Fig9-1	Tray Lift Motor	D3	1/2
M4	Fig5-14	Paper Transfer Roller Contact Motor	E3	1/2
M5	Fig7-17	Toner Collection Motor	E3	1/2
M6	Fig3-8	LDU Shutter Motor	F2	1/2
M7	Fig9-12	Vertical Transport Motor	H6	1/2
M8	Fig5-4	Inverter Motor	H6	1/2
M9	Fig6-4	Duplex/ Bypass Motor	H6	1/2
M10	Fig5-9	Registration Motor	H6	1/2
M11	Fig9-11	Paper Feed Motor	H6	1/2
M12	Fig10-4	Development Motor: CMY	G6	1/2
M13	Fig10-3	Drum Motor: CMY	F5	1/2
M14	Fig3-7	Lens Positioning Motor: Y	D6	1/2
M15	Fig3-4	Lens Positioning Motor: C	D6	1/2
M16	Fig3-5	Lens Positioning Motor: M	C6	1/2
M17	Fig7-8	Toner Supply Motor (Ye)	B6	1/2
M18	Fig7-11	Toner Supply Motor (Cy)	B6	1/2
M19	Fig7-13	Toner Supply Motor (Ma)	B6	1/2
M20	Fig7-15	Toner Supply Motor (Bk)	B6	1/2
M21	Fig4-2	Transfer Belt Contact Motor	B6	1/2
M22	Fig3-3	Polygon Mirror Motor	C2	2/2
Sensors				
S1	Fig5-2	Paper Exit Sensor	A2	1/2
S2	Fig5-3	Paper Overflow Sensor	A2	1/2
S3	Fig5-6	Fusing Exit Sensor	C3	1/2
S4	Fig10-1	Drum Phase Sensor (Bk)	B3	1/2
S5	Fig10-5	Drum Phase Sensor (CMY)	B3	1/2
S6	Fig2-3	TD Sensor: C	C2	1/2
S7	Fig2-3	TD Sensor: Bk	C2	1/2
S8	Fig9-8	Paper Height Sensor 1	D2	1/2
S9	Fig9-9	Paper Height Sensor 2	D2	1/2
S10	Fig1-1	Temperature/Humidity Sensor	E3	1/2
S11	Fig5-10	Paper Transfer Roller Contact Sensor	E2	1/2
S12	Fig3-9	LDU Shutter Sensor	F2	1/2
S13	Fig4-4	ITB Rotation Sensor	F2	1/2
S14	Fig4-1	ITB Contact Sensor	F2	1/2
S15	Fig2-4	Thermopile	F3	1/2
S16	Fig9-4	Paper Feed Sensor	F2	1/2
S17	Fig9-6	Vertical Transport Sensor	F2	1/2
S18	Fig9-5	Paper End Sensor	G2	1/2
S19	Fig9-7	Paper Lift Sensor	G2	1/2
S20	Fig5-12	Registration Sensor	G2	1/2
S21	Fig5-5	Inverter Sensor	G2	1/2
S22	Fig6-2	Duplex Entrance Sensor	G2	1/2
S23	Fig6-5	Duplex Exit Sensor	G2	1/2
S24	Fig5-7	Fusing Entrance Sensor	G2	1/2
S25	Fig5-11	Bypass Paper End Sensor	H2	1/2
S26	Fig2-3	TD Sensor: Y	G6	1/2
S27	Fig2-3	TD Sensor: M	F6	1/2
S28	Fig7-1	Waste Toner Bottle Full Sensor	D6	1/2
S29	Fig7-2	Waste Toner Bottle Set Sensor	D6	1/2
S30	Fig7-6	Toner End Sensor: Y	C5	1/2
S31	Fig7-5	Toner End Sensor: C	C5	1/2
S32	Fig7-4	Toner End Sensor: M	C5	1/2
S33	Fig7-3	Toner End Sensor: Bk	C5	1/2
S34	Fig3-2	Laser Synchronizing Detector	C2	2/2
S35	Fig6-3	Front Door Sensor	A3	1/2
S36	Fig7-16	Upper Cover Sensor	A3	1/2

Symbol	Index No.	Description	PtoP	Page
Clutch				
CL1	Fig10-6	Development Clutch: Bk	C3	1/2
Switches				
SW1	Fig9-3	Tray 1 Set Switch	D2	1/2
SW2	Fig6-1	Interlock Switch	E1	2/2
SW3	Fig8-7	Main Power Switch	C5	2/2
Solenoids				
SOL1	Fig5-1	Junction Gate Solenoid	A2	1/2
SOL2	Fig9-10	Paper Feed Solenoid	F2	1/2
SOL3	Fig5-13	Bypass Solenoid	H2	1/2
Fans				
FAN1	Fig1-9	Fusing Fan 1	H2	1/2
FAN2	Fig1-8	Fusing Fan 2	H2	1/2
FAN3	Fig1-7	Toner Supply Fan	I3	1/2
FAN4	Fig1-3	Fusing Coolong Fan	I3	1/2
FAN5	Fig1-6	Drive Unit Fan	E6	1/2
FAN6	Fig1-2	Laser Unit Fan	E6	1/2
FAN7	Fig1-5	Development Fan 2	E6	1/2
FAN8	Fig1-4	Development Fan 1	E6	1/2
Others				
L1	Fig2-2	Heating Roller Fusing Lamp	J2	1/2
L2	Fig2-1	Pressure Roller Fusing Lamp	J2	1/2
TH1	Fig2-5	Heating Roller Thermistor	J2	1/2
TH2	Fig2-6	Pressure Roller Thermistor	J2	1/2
PCBs				
PCB1	Fig4-3	ID Sensor Board	C2	1/2
PCB2	Fig9-2	Paper Size Sensor Board	D3	1/2
PCB3	Fig5-8	HVPS: D	H2	1/2
PCB4	Fig8-3	BCU	B4	1/2
PCB5	Fig7-10	RFID-CPU	B5	1/2
PCB6	Fig7-14	RFID: Bk	B6	1/2
PCB7	Fig7-12	RFID: C	B6	1/2
PCB8	Fig7-9	RFID: M	C6	1/2
PCB9	Fig7-7	RFID: Y	C6	1/2
PCB10	Fig3-6	LDB (YM)	B2	2/2
PCB11	Fig3-1	LDB (KC)	B2	2/2
PCB12	Fig8-4	Bridge Board	A4	2/2
PCB13	Fig8-1	PSU	E3	2/2
PCB14	Fig8-8	HVPS: C/B	H3	2/2
PCB15	Fig8-2	HVPS: T1/T2	J3	2/2
PCB16	Fig8-5	Controller Board	B5	2/2
PCB17	Fig8-6	Operation Panel Unit	C6	2/2