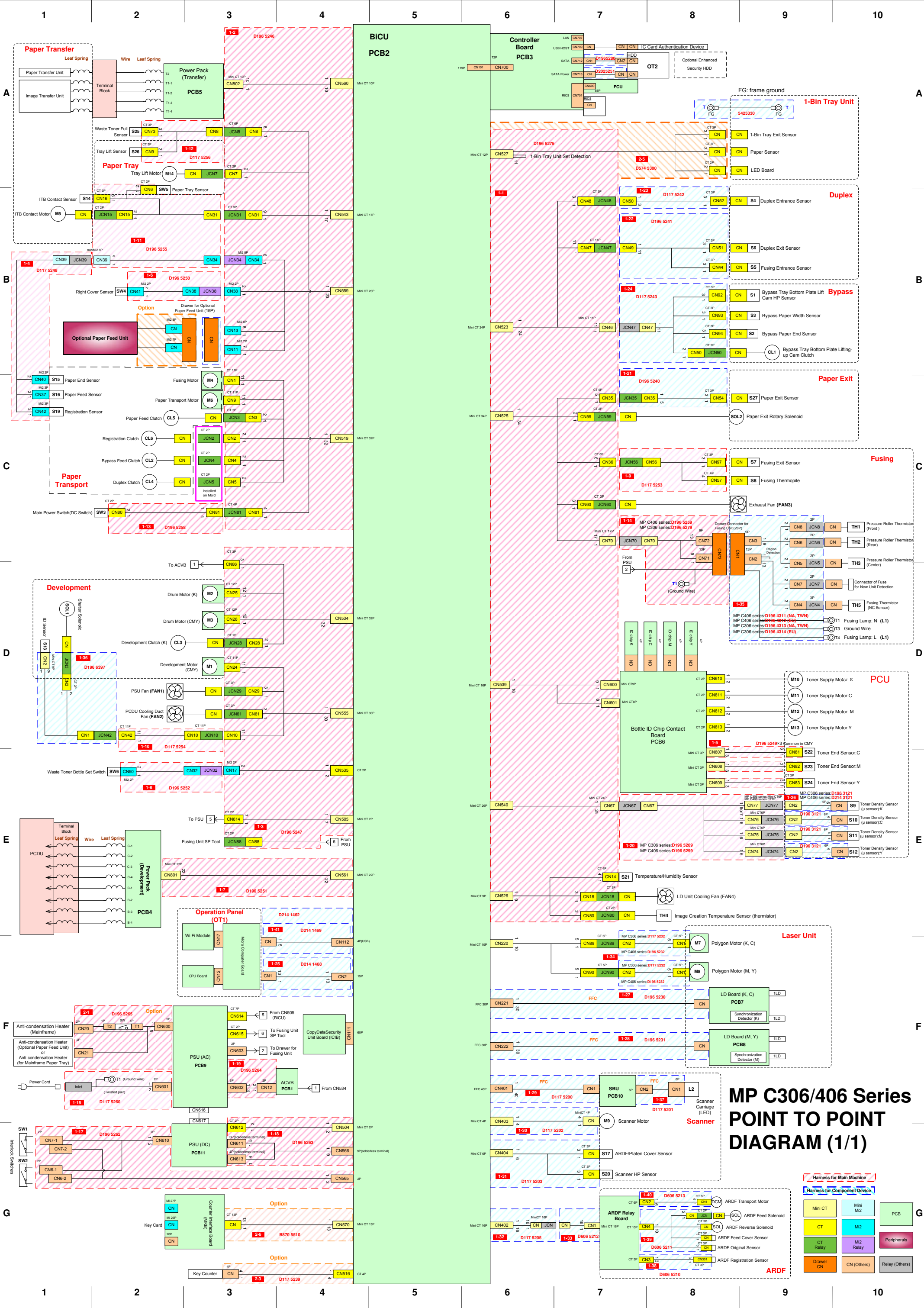




Harness No.	Harness Part No.	Connector (FROM)			Signal Information		Relay Harness Part No.	Connector (TO)		
		No.	To Connector	Pin No.	Signal Name	Direction		No.	To Connector	Pin No.
1-1	D1965275	CN525	BICU CN525	1	Fusing Fan: Control	->	D1175253 CN56		Fusing Fan	3
				2	Fusing Fan: Lock	<-				2
				3	Fusing Fan: GND	G				1
				4	Fusing Thermopile: +5V IO	P			D1175253 CN56-CN57 (Fusing Thermopile)	3
				5	Fusing Thermopile: GND	G				2
				6	Fusing Thermopile: FB	<-				1
				7	Fusing Exit Sensor: GND	G			D1175253 CN56-CN97 (Fusing Exit Sensor)	3
				8	Fusing Exit Sensor	<-				2
				9	Fusing Exit Sensor: +5V IO	P				1
					N.C.	N	D1965240 CN35		D1965240 CN35-CN54 (Paper Exit Sensor)	
					N.C.	N				
				10	Paper Exit Sensor: GND	G				3
				11	Paper Exit Sensor	<-				2
				12	Paper Exit Sensor: +5V IO	P				1
				13	N.C.	N				
				14	Paper Exit Rotary Solenoid: OUT1	->			Paper Exit Rotary Solenoid	2
				15	Paper Exit Rotary Solenoid: OUT2	->				1
				16	Pressure Roller Thermistor (Center): GND	G	D1965259 or D1965279 CN70		D1965259 or D1965279 CN70	1
				17	Pressure Roller Thermistor (Center): FB	<-				2
				18	Pressure Roller Thermistor (Rear): GND	G				3
				19	Pressure Roller Thermistor (Rear): FB	<-				4
				20	Pressure Roller Thermistor (Front): GND	G				5
				21	Pressure Roller Thermistor (Front): FB	<-				6
				22	NC1: GND	G				7
				23	NC1: Detection	<-				8
				24	NC1: Compensation	<-				9
					N.C.	N				10
					N.C.	N				
				25	GND (a Detection)	G				11
				26	GND (b Detection)	G				12
					N.C.	N				13
				27	Fusing Unit Region Detection: NA, TWN	<-				14
				28	Fusing Unit Region Detection: EU	<-				15
				29	GND	G				16
				30	Fusing Unit New Detectionion	->				17
		CN539	BICU CN539	1	ID Tag: +5V	P	CN600		BRB	9
				2	Toner End Sensor: +5V	P				8
				3	+24VS	P				7
				4	+24VS	P				6
				5	GND	G				5
				6	GND	G				4
				7	GND	G				3
				8	ID Tag: SCL	->				2
				9	ID Tag: SDA	<-/->				1
				10	Toner Supply Motor: Y: Control	->	CN601		BRB	8
				11	Toner Supply Motor: M: Control	->				7
				12	Toner Supply Motor: C: Control	->				6
				13	Toner Supply Motor: K: Control	->				5
				14	Toner End Sensor: Y	<-				4
				15	Toner End Sensor: M	<-				3
				16	Toner End Sensor: C	<-				2
					N.C.	N				1
		CN220	BICU CN220	1	+24V PM	P	D1175232 CN2		D1175253 CN2-CN1 (Polygon Motor: B, C)	5
				2	GND	G				4
				3	Polygon Motor: ON (B, C)	->				3
				4	Polygon Motor: Ready (B, C)	<-				5
				5	Polygon Motor: Clock (B, C)	->				1
				6	+24V PM	P	D1175232 CN2		D1175253 CN2-CN1 (Polygon Motor: M, K)	5
				7	GND	G				4
				8	Polygon Motor: ON (M, Y)	->				3
				9	Polygon Motor: Ready (M, Y)	<-				2
				10	Polygon Motor: Clock (M, Y)	->				1
		CN526	BICU CN526	1	LD Unit Fan: Control	->			LD Unit Fan	3
				2	LD Unit Fan: Lock	<-				2
				3	GND	G				1
				4	Image Creation Temperature Sensor: IP	<-			Image Creation Temperature Sensor	2
				5	GND	G				1
				6	Temperature Sensor: FB	<-			Temperature/Humidity Sensor	4
				7	GND	G				3
				8	Humidity Sensor: FB	<-				2
				9	+3.3V	P				1
		CN523	BICU CN523	1	Bypass Paper Width sensor/GND	G	D1175243 CN47		D1175243 CN47-CN93 (Bypass UNIT: Bypass Paper Width sensor)	3
				2	Bypass Paper Width sensor	<-				2
				3	Bypass Paper Width sensor/+5V	P				1
				4	Bypass Paper End sensor/GND	G			D1175243 CN47-CN94 (Bypass UNIT: Bypass Paper End sensor)	3
				5	Bypass Paper End sensor/	<-				2
				6	Bypass Paper End sensor/+5V	P				1
				7	N.C.	N				
				8	Bypass Lift Clutch/+24VS LPS	P			D1175243 CN47-CN50 (Bypass UNIT: Bypass Lift Clutch)	2
				9	Bypass Lift Clutch: Control	->				1
				10	Bypass Lift Sensor/GND	G			D1175243 CN47-CN92 (Bypass UNIT: Bypass Lift Sensor)	3
				11	Bypass Lift Sensor	<-				2
				12	+5V	P				1
				13	Duplex Entrance Sensor/GND	G	D1175242 CN50		D1175242 CN50-CN52 (Duplex Entrance Sensor)	3
				14	Duplex Entrance Sensor	<-				2
				15	Duplex Entrance Sensor/+5V	P				1
				16	N.C.	N	D1965241 CN49			
				17	N.C.	N				
				18	N.C.	N				
					N.C.	N				
					N.C.	N				
					N.C.	N				
				19	Fusing Entrance Sensor/GND	G			D1965241 CN49-CN51 (Duplex UNIT: Fusing Entrance Sensor)	3
				20	Fusing Entrance Sensor	<-				2
				21	Fusing Entrance Sensor/+5V	P				1
				22	Duplex Exit Sensor/GND	G			D1965241 CN49-CN44 (Duplex UNIT: Fusing Entrance Sensor)	3
				23	Duplex Exit Sensor	<-				2
				24	Duplex Exit Sensor/+5V	P				1
					N.C.	N				
					N.C.	N				

		CN540	BICU CN540	1	GND	G	D1965269 CN67			D1965269 CN67–CN77 (TD Sensor K)	6							
				2	TD Sensor: K: Fout	<-					5							
				3	TD Sensor +3.3V	P					4							
				4	TD Sensor: K: SEL	->					3							
				5	TD Sensor: SDA	<-/->					2							
				6	TD Sensor: SCL	->					1							
				7	GND	G				D1965269 CN67–CN76 (TD Sensor C)	6							
				8	TD Sensor: C: Fout	<-					5							
				9	TD Sensor +3.3V	P					4							
				10	TD Sensor: C: SEL	->					3							
				11	TD Sensor: SDA	<-/->					2							
				12	TD Sensor: SCL	->					1							
				13	N.C.	N				D1965269 CN67–CN75 (TD Sensor M)	6							
				14	N.C.	N					5							
				15	GND	G					4							
				16	TD Sensor: M: Fout	<-					3							
				17	TD Sensor +3.3V	P					2							
				18	TD Sensor: M: SEL	->					1							
				19	TD Sensor: SDA	<-/->				D1965269 CN67–CN74 (TD Sensor Y)	6							
				20	TD Sensor: SCL	->					5							
				21	GND	G					4							
				22	TD Sensor: Y: Fout	<-					3							
				23	TD Sensor +3.3V	P					2							
				24	TD Sensor: Y: SEL	->					1							
				1-2	D1965246	CN519				BICU CN519	25	TD Sensor: SDA	<-/->					6
											26	TD Sensor: SCL	->					5
1	N.C.	N	4															
2	Registration Clutch: +24VS LPS	P	3															
3	Registration Clutch: Control	->	2															
4	Paper Feed Clutch: +24VS LPS	P	1															
5	Paper Feed Clutch: Control	->	11															
6	Fusing Motor: CLK	->	10															
7	Fusing Motor: Brake	->	9															
8	Fusing Motor: Rotatory Direction	->	8															
9	Fusing Motor: Start	->	7															
10	Fusing Motor: Lock	<-	6															
11	N.C.	N	5															
12	N.C.	N	4															
	N.C.	N	3															
	N.C.	N	2															
13	Fusing Motor: GND	G	1															
14	Fusing Motor: GND	G	Duplex Clutch				5											
15	Fusing Motor: +24VS	P					4											
16	Fusing Motor: +24VS	P					2											
17	N.C.	N					1											
18	Duplex Clutch: +24VS LPS	P					11											
19	Duplex Clutch: Control	->					10											
20	Bypass Feed Clutch: +24VS LPS	P	Bypass Feed Clutch				9											
21	Bypass Feed Clutch: Control	->					8											
22	Paper Transport Motor: CLK	->					7											
23	Paper Transport Motor: Brake	->					6											
24	Paper Transport Motor: Rotatory Direction	->					5											
25	Paper Transport Motor: Start	->					4											
26	Paper Transport Motor: Lock	<-	Paper Transport Motor				3											
27	N.C.	N					2											
28	N.C.	N					1											
	N.C.	N					11											
	N.C.	N					10											
29	Paper Transport Motor: GND	G					9											
30	Paper Transport Motor: GND	G					8											
31	Paper Transport Motor: +24VS	P					7											
32	Paper Transport Motor: +24VS	P					6											
CN559	BICU CN559					N.C.	N	5										
						N.C.	N	4										
						N.C.	N	3										
		1	Paper Feed Unit: RXD			<-	Paper Feed Unit (Drawer)	2										
		2	Paper Feed Unit: TXD			->		1										
		3	GND			G		8										
		4	+5V			P		7										
			N.C.			N	Paper Feed Unit (Drawer)	6										
			N.C.			N		5										
		5	GND			G		4										
		6	GND			G		3										
		7	GND			G		2										
		8	+24V			P		1										
		9	+24V			P	D1965255 CN34–CN39 -> D1175248 CN39–CN40 (Tray Paper End Sensor)	2										
		10	+24V			P		1										
		11	GND			G		D1965255 CN34–CN39 -> D1175248 CN39–CN37 (Paper Feed Sensor)	3									
		12	Tray Paper End Sensor			<-			2									
		13	GND			G			1									
		14	Paper Feed Sensor			<-	D1965255 CN34–CN39 -> D1175248 CN39–CN42 (Registration Sensor)		2									
		15	+5V			P			1									
		16	GND			G		D1175250 CN38–CN41 (Right Cover Sensor)	2									
		17	Registration Sensor			P			1									
		18	+5V			P			10									
		19	Right Cover Sensor			<-	9											
		20	GND			G	8											
CN560	BICU CN560			1	+24VS LPS	P	CN802			HVP T1/T2	7							
				2	GND	G					6							
				3	HVP: TTS: SC Search	<-					5							
				4	HVP: Paper Transfer: FB	<-					4							
				5	HVP: Paper Transfer: +: PWM	->					3							
				6	HVP: Paper Transfer: -: PWM	->					2							
				7	HVP: ITB: K: PWM	->					1							
				8	HVP: ITB: C: PWM	->												
				9	HVP: ITB: M: PWM	->												
				10	HVP: ITB: Y: PWM	->												

		CN543	BICU CN543	1	Tray Lift Motor: Control A	->	D1175256 CN8		Tray Lift Motor (D3315600)	2
				2	Tray Lift Motor: Control B	->			1	
				3	GND	G			D1175256 CN8–CN73 (Waste Toner Full Sensor)	3
				4	Waste Toner Full Sensor	<-				2
				5	+5V	P				1
				6	GND	G				3
				7	Tray Lift Sensor	<-			D1175256 CN8–CN9 (Waste Toner Full Sensor)	2
				8	+5V IO	P				1
				9	ITB Contact Motor: Control A	->	D1965255 CN31	D1965255 CN31–CN15 (ITB Contact Motor)		9
				10	ITB Contact Motor: Control B	->		8		
				11	GND	G		D1965255 CN31–CN16 (ITB Contact HP Sensor)	7	
				12	ITB Contact HP Sensor	<-		6		
				13	+5V	P		5		
				14	GND	G		D1965255 CN31–CN6 (Tray Set Sensor)	4	
				15	Tray Set Sensor	<-			3	
					N.C.	N			2	
					N.C.	N	1			
				16	DC SW ON Signal	<-	D1965258 CN81	D1965258 CN81–CN80 (DCSW)	2	
				17	GND	G		1		
					N.C.	N				
					N.C.	N				
1-3	D1965247	CN555	BICU CN555	1	N.C.	N	D1175254 CN10			
				2	+24VS LPS	P			D1175254 CN10–CN42 -> D1176397 CN1–CN2 (ID Sensor Shutter Solenoid)	11
				3	ID Sensor Shutter Solenoid: Control	->			10	
				4	GND	G			D1175254 CN10–CN42 -> D1176397 CN1–CN2 (Waste Toner Bottle Set Sensor)	9
				5	ID Sensor: R: PWM	->				8
				6	ID Sensor R FB	<-				7
				7	ID Sensor_C FB	<-				6
				8	+5V	P				5
				9	ID Sensor: C: PWM	->				4
				10	ID Sensor_C FB	<-				3
				11	ID Sensor F FB	<-				2
				12	ID Sensor: F: PWM	->				1
				13	PCDU Cooling Duct Fan: Control	->	PCDU Cooling Duct Fan	3		
				14	PCDU Cooling Duct Fan: Lock	<-		2		
				15	GND	G		1		
				16	PSU Fan: Control	->	PSU Fan	3		
				17	PSU Fan: Lock	<-		2		
				18	GND	G		1		
				19	N.C.	N				
				20	Development Motor (CMY): CLK	->	Development Motor (CMY)	11		
				21	Development Motor (CMY): Brake	->		10		
				22	Development Motor (CMY): Rotatory Direction	->		9		
				23	Development Motor (CMY): Start	->		8		
				24	Development Motor (CMY): Lock	<-		7		
				25	N.C.	N				
				26	N.C.	N				
					N.C.	N		6		
					N.C.	N		5		
				27	GND	G		4		
				28	GND	G		3		
				29	+24VS	P		2		
				30	+24VS	P	1			
		CN534	BICU CN534	1	+24VS LPS	P			Development Clutch (K)	2
				2	Development Clutch (K): BK: Control	->			1	
				3	Drum Motor (K): Gain	->			Drum Motor (K)	12
				4	Drum Motor (K): CLK	->				11
				5	Drum Motor (K): Brake	->				10
				6	Drum Motor (K): Rotatory Direction	->				9
				7	Drum Motor (K): Start	->				8
				8	Drum Motor (K): Lock	<-				7
				9	N.C.	N				
				10	N.C.	N				
					N.C.	N				6
					N.C.	N				5
				11	GND	G				4
				12	GND	G				3
				13	+24VS	P			2	
				14	+24VS	P			1	
				15	N.C.	N				
				16	N.C.	N				
				17	Drum Motor (CMY): Gain	->	Drum Motor (CMY)	12		
				18	Drum Motor (CMY): CLK	->		11		
				19	Drum Motor (CMY): Brake	->		10		
				20	Drum Motor (CMY): Rotatory Direction	->		9		
				21	Drum Motor (CMY): Start	->		8		
				22	Drum Motor (CMY): Lock	<-		7		
				23	N.C.	N				
				24	N.C.	N				
					N.C.	N		6		
					N.C.	N		5		
				25	GND	G		4		
				26	GND	G		3		
				27	+24VS	P	2			
				28	+24VS	P	1			
				29	N.C.	N				
				30	GND	G	CN2	ACVB	3	
				31	AC Voltage Detection	<-			2	
		32	+24V	P	1					
		CN505	BICU CN505	1	Zero-cross Signal 2	<-	CN614	PSU (AC)	7	
				2	Zero-cross Signal 1	<-			6	
				3	Fusing Heater (Center): Control	->			5	
				4	Fusing Heater: Relay: Control 1	->			4	
				5	Fusing Heater: Relay: Control 2	->			3	
				6	GND	G			2	
				7	+24V RLY	P			1	
		CN615	PSU CN615		Fusing Unit SP Tool: 24V	P				
					Fusing Unit SP Tool: ON/OFF Trigger (GND)	G				
		CN535	BICU CN535	1	Waste Toner Bottle Set Sensor: Set Sensor	<-	D1175252 CN32	D1175252 CN32–CN50 (Waste Toner Bottle Set Sensor)	2	
				2	GND	G			1	
1-4	D1175248	CN39	Relay CN39	8	GND	G			Tray Paper End Sensor	2
				7	Tray Paper End Sensor	<-			1	
				6	GND	G			Paper Feed/Registration Relay	6
				5	Paper Feed Sensor	<-			5	
				4	+5V	P			4	
				3	GND	G			3	
				2	Registration Sensor	<-			2	
				1	+5V	P			1	
1-5	D1965249	CN606	BRB CN606	1	GND	G			Toner End Sensor C/M/Y	3
				2	Toner End Sensor	<-			2	
				3	+5V	P			1	

1-6	D1965250	CN38	Relay CN38	2	Right Cover Sensor	<-			Right Cover Sensor	2
				1	GND	G				1
1-7	D1965251	CN561	BICU CN561	1	HVP: Charger DC: M: PWM	->		CN801	HVP C/B	11
				2	HVP: Charger DC: C: PWM	->				10
				3	HVP: Charger DC: K: PWM	->				9
				4	HVP: Charger AC: Y: PWM	->				8
				5	HVP: Charger AC: M: PWM	->				7
				6	HVP: Charger AC: C: PWM	->				6
				7	HVP: Charger AC: K: PWM	->				5
				8	HVP: Charger AC: Frequency	->				4
				9	N.C.	N				3
				10	GND	G				2
				11	+24VS1	P				1
				12	HVP: Charger AC: K: FB	<-				22
				13	HVP: Charger AC: C: FB	<-				21
				14	HVP: Charger AC: M: FB	<-				20
				15	HVP: Charger AC: Y: FB	<-				19
				16	N.C.	N				18
				17	HVP: CB: SC Search	<-				17
				18	HVP: Development: C: PWM	->				16
				19	HVP: Development: K: PWM	->				15
				20	HVP: Development: M: PWM	->				14
				21	HVP: Development: Y: PWM	->				13
				22	HVP: Charger DC: Y: PWM	->				12
1-8	D1965252	CN32	Relay CN17	2	Waste Toner Bottle Set Sensor: Set Sensor	<-			Waste Toner Bottle Set Sensor	2
				1	GND	G				1
1-9	D1175253	CN56	Relay CN36		N.C.	N			Fusing Thermopile	4
				6	5V	P				3
				5	GND	G				2
				4	Fusing Thermopile: FB	<-				1
				3	GND	G			Fusing Exit Sensor	3
				2	Fusing Exit Sensor	<-				2
				1	+5V	P				1
1-10	D1175254	CN10	Relay CN10	11	+24VS1	P	D1175254	CN42	[1-36] D1176397 CN42–CN3 ID Sensor Shutter Solenoid	2
				10	ID Sensor Shutter Solenoid: Control	->			ID Sensor Shutter Solenoid	1
				9	GND	G			[1-36] D1176397 CN42–CN3 ID Sensor	9
				8	ID Sensor: R: PWM	->				8
				7	ID Sensor R FB	<-				7
				6	ID Sensor C FB	<-				6
				5	+5V	P				5
				4	ID Sensor: C: PWM	->				4
				3	ID Sensor C FB	<-				3
				2	ID Sensor F FB	<-				2
				1	ID Sensor: F: PWM	->				1
1-11	D1965255	D196525 5 CN31	Relay CN31	9	ITB Contact Motor: Control A	->			ITB Contact Motor	2
				8	ITB Contact Motor: Control B	->				1
				7	GND	G			ITB Contact HP Sensor	3
				6	ITB Contact HP Sensor	<-				2
				5	+5V	P				1
				4	GND	G			Tray Set Sensor	2
				3	Tray Set Sensor	<-				1
				2	N.C.	N				
				1	N.C.	N				
		D196525 5 CN34	Relay CN34	8	GND	G	D1175248	CN39	D1175248 CN39 (Tray Paper End Sensor)	2
				7	Tray Paper End Sensor	<-				1
				6	GND	G			D1175248 CN39 (Paper Feed Sensor)	3
				5	Paper Feed Sensor	<-				2
				4	+5V	P				1
				3	GND	G			D1175248 CN39 (Registration Sensor)	3
				2	Registration Sensor	<-				2
				1	+5V	P				1
1-12	D1175256	CN8	Relay CN8	6	GND	G		CN73	Waste Toner Full Sensor	3
				5	Waste Toner Full Sensor	<-				2
				4	+5V	P				1
				3	GND	G		CN9	Tray Lift Sensor	3
				2	Tray Lift Sensor	<-				2
				1	+5V	P				1
1-13	D1965258	D196524 6 CN81	Relay CN81	4	DC_SW_ON Signal	<-			DCSW	2
				3	N.C.	N				
				2	N.C.	N				
				1	GND	G				1
1-14	D1965279 (MP C306 Series)	D196527 5 CN70	Relay CN70	17	Pressure Roller Thermistor (Center): GND	G	D1964311 or D1964312 or D1964313 or D1964314	Drawer	D1964311 or D1964312 or D1964313 or D1964314 Drawer–CN Fusing UNIT: Pressure Roller Thermistor (Center)	2
				16	Pressure Roller Thermistor (Center): FB	<-				1
				15	Pressure Roller Thermistor (Rear): GND	G			D1964311 or D1964312 or D1964313 or D1964314 Drawer–CN Fusing UNIT: Pressure Roller Thermistor (Rear)	2
				14	Pressure Roller Thermistor (Rear): FB	<-				1
				13	Pressure Roller Thermistor (Front): GND	G			D1964311 or D1964312 or D1964313 or D1964314 Drawer–CN Fusing UNIT: Pressure Roller Thermistor (Front)	2
				12	Pressure Roller Thermistor (Front): FB	<-				1
					N.C.	N				
					N.C.	N				
					N.C.	N				
				11	NC Sensor 1/GND	G			D1964311 or D1964312 or D1964313 or D1964314 Drawer–CN Fusing UNIT: NC Sensor 1	3
				10	NC Sensor 1/Detection	<-				2
				9	NC Sensor 1/Compensation	<-				1
				8	N.C.	N				
					N.C.	N				
					N.C.	N				
					N.C.	N				
					N.C.	N				
				7	GND (MP C306 Series)	G			D1964311 or D1964312 or D1964313 or D1964314 Drawer–CN Fusing UNIT: Generation Detection 2	
				6	GND (MP C406 Series)	G				
				5	N.C.	N			D1964311 or D1964312 or D1964313 or D1964314 Drawer–CN Fusing UNIT: Fusing Unit Region Detection	-
					N.C.	N				-
				4	Fusing Unit Region Detection: NA, TWN	<-				-
				3	Fusing Unit Region Detection: EU	<-				-
				2	Fusing Unit New Detection: GND	G			D1964311 or D1964312 or D1964313 or D1964314 Drawer–CN Fusing UNIT: Fusing Unit New Detection	2
					Fusing Unit New Detection	->				1
		CN603	PSU CN603		Fusing Heater/L	->			D1964311 or D1964312 or D1964313 or D1964314 Drawer–CN Fusing UNIT: Fusing Heater/L	1
				1	N.C.	N				
					Fusing Heater (Center)/N	->			D1964311 or D1964312 or D1964313 or D1964314 Drawer–CN Fusing UNIT: Fusing Heater (Center)/N	1
		T1			Ground Wire	G			Ground Wire	-
					N.C.	N				
					N.C.	N				

1-15	D1175260	CN601	PSU CN601	1	AC IN L	<-		INLET	Inlet	L
				2	AC IN N	<-				E
					EARTH	G				N
1-17	D1965262	CN565	BICU CN565	1	+24VS	P			Interlock SW	2
				2	+24VS LPS	P				1
		CN610	PSU CN610	1	+24VL	P				2
				2	+24VL LPS	P				1
1-18	D1965263	CN566	PSU CN300	1	GND	G		CN611	PSU (AC) CN611	5
				2	GND	G				4
				3	+24V LPS	P				3
				4	GND	G		CN613	PSU (AC) CN613	2
				5	+24V	P				1
				6	GND	G				4
				7	GND	G		CN612	PSU (AC) CN612	3
				8	+5V	P				2
				9	+5VX	P				1
		CN504	BICU CN504	1	GND	G		CN612	PSU (AC) CN612	2
				2	PONENG Signal	<-				1
1-19	D1965264	CN602	PSU CN602	1	AC Voltage Detection/N	<-		CN12	ACVB	3
					N.C.	N				2
				2	AC Voltage Detection/L	<-				1
2-1	D1965265	CN600	PSU CN600	1	Anti-condensation Heater (Mainframe)/N	->			Anti-condensation Heater (Mainframe)	2
				2	Anti-condensation Heater (Optional Paper Feed Ur	->			Anti-condensation Heater (Optional Paper Feed	2
				3	N.C.	N				
				4	Anti-condensation Heater (Mainframe)/L	<-			Anti-condensation Heater (Mainframe)	1
				5	Anti-condensation Heater (Optional Paper Feed Ur	<-			Anti-condensation Heater (Optional Paper Feed	1
		T2			Anti-condensation Heater (Optional Paper Feed Ur	<-			Anti-condensation Heater (Optional Paper Feed	-

Unit Harness

1-21	D1965240	D196527 5 CN35	Relay CN35	1	N.C.	N			Paper Exit Sensor	
				2	N.C.	N				
				3	GND	G				3
				4	Paper Exit Sensor	<-				2
				5	5V	P				1
1-22	D1965241	D196527 5 CN41	Relay CN41	1	N.C.	N				
				2	N.C.	N				
				3	N.C.	N				
				4	GND	G			Fusing Entrance Sensor	3
				5	Fusing Entrance Sensor	<-				2
				6	+5V	P				1
				7	GND	G			Duplex Exit Sensor	3
				8	Duplex Exit Sensor	<-				2
				9	+5V	P				1
				10	N.C.	N				
				11	N.C.	N				
1-23	D1175242	D196527 5 CN48	Relay CN41	1	GND	G			Duplex Entrance Sensor	3
				2	Duplex Entrance Sensor	<-				2
				3	+5V	P				1
1-24	D1175243	D196527 5 CN7	Relay CN7	1	GND	G			Bypass Paper Width sensor	3
				2	Bypass Paper Width sensor	<-				2
				3	+5V	P				1
				4	GND	G			Bypass Paper End sensor	3
				5	Bypass Paper End sensor	<-				2
				6	+5V	P				1
				7	+24VS2	P			Bypass Lift Clutch	2
				8	Bypass Lift Clutch: Control	->				1
				9	GND	G			Bypass Lift Sensor	3
				10	Bypass Lift Sensor	<-				2
				11	+5V	P				1
1-25	D2141468	CN114	BICU CN114	1	GND	G		CN3	SUB	15
				2	GND	G				14
				3	GND	G				13
				4	SDMODE N	O				12
				5	-	I				11
				6	Engine Power Signal	O				10
				7	V:Power: Notification	O				9
				8	Status Transition Request for Energy Save Key	I				8
				9	USB Host Power Signal for Controller	O				7
				10	-	O				6
				11	-	P				5
				12	+5VX LPS2	P				4
				13	+5VX LPS2	P				3
				14	+5VX LPS1	P				2
				15	+5VX LPS1	P				1
1-26	D1963121	D196526 9 CN74~77	Relay CN74~77	1	GND	G			TD Sensor (Y/M/C/K - MP C306 Series)	6
				2	Front	<-				5
				3	+3.3V	P				4
				4	SEL	->				3
				5	SDA	<-/->				2
				6	SCL	->				1
1-27	D1965230	CN221	BICU CN221	1	Cyan: LD1: Data +	O			LDB (K, C)	1
				2	Cyan: LD1: Data -	O				2
				3	GND	G				3
				4	GND	G				4
				5	Cyan: LD1: Intensity Adjustment DAC	O				5
				6	GND	G				6
				7	GND	G				7
				8	GND	G				8
				9	GND	G				9
				10	GND	G				10
				11	Cyan: LD1: APC Control	O				11
				12	Cyan: LD1: LD Off	O				12
				13	LD Power	P				13
				14	LD Power	P				14
				15	Black, Cyan: LD Error Search	I				15
				16	Black, Cyan: LD5V Power Error Search	I				16
				17	Black: Leading Edge Synchronus Detection Signal	I				17
				18	LD Power	P				18
				19	LD Power	P				19
				20	Black: LD1: LD Off	O				20
				21	Black: LD1: APC Control	O				21
				22	GND	G				22
				23	GND	G				23
				24	GND	G				24
				25	GND	G				25
				26	Black: LD1: Intensity Adjustment DAC	O				26
				27	GND	G				27
				28	GND	G				28
				29	Black: LD1: Data +	O				29
				30	Black: LD1: Data -	O				30

1-28	D1965231 (MP C306 Series)	CN222	BICU CN222	1	Yellow: LD1: Data +	O			LDB (M, Y)	1
				2	Yellow: LD1: Data -	O				2
				3	GND	G				3
				4	GND	G				4
				5	Yellow: LD1: Intensity Adjustment DAC	O				5
				6	GND	G				6
				7	GND	G				7
				8	GND	G				8
				9	GND	G				9
				10	GND	G				10
				11	Yellow: LD1: APC Control	O				11
				12	Yellow: LD1: LD Off	O				12
				13	LD Power	P				13
				14	LD Power	P				14
				15	Magenta, Yellow: LD Error Search	I				15
				16	Pull Down Process in BICU	G				16
				17	Magenta: Leading Edge Synchronus Detection Sig	I				17
				18	LD Power	P				18
				19	LD Power	P				19
				20	Magenta: LD1: LD Off	O				20
				21	Magenta: LD1: APC Control	O				21
				22	GND	G				22
				23	GND	G				23
				24	GND	G				24
				25	GND	G				25
				26	Magenta: LD1: Intensity Adjustment DAC	O				26
				27	GND	G				27
				28	GND	G				28
				29	Magenta: LD1: Data +	O				29
				30	Magenta: LD1: Data -	O				30
1-29	D1175200	CN401	BICU CN401	1	GND	G		CN1	SBU CN1	40
				2	GND	G				39
				3	CCD, EF Power	P				38
				4	CCD, EF Power	P				37
				5	CCD Driver Power Source	P				36
				6	CCD Driver Power Source	P				35
				7	GND	G				34
				8	Analog Signal R	<-				33
				9	GND	G				32
				10	Analog Signal G or BW_ odd	<-				31
				11	GND	G				30
				12	Analog Signal B or BW_ even	<-				29
				13	GND	G				28
				14	Differential Buffer Power Source	P				27
				15	Differential Buffer Power Source	P				26
				16	SW (Color/Mono)	->				25
				17	GND	G				24
				18	CP Pulse	->				23
				19	CP Pulse	->				22
				20	GND	G				21
				21	RS Pulse	->				20
				22	RS Pulse	->				19
				23	GND	G				18
				24	PH2 Pulse	->				17
				25	PH2 Pulse	->				16
				26	GND	G				15
				27	PH1 Pulse	->				14
				28	PH1 Pulse	->				13
				29	SBU Connection Detection	I				12
				30	SH2, SH3 (for BW)	->				11
				31	SH1 (for RGB)	->				10
				32	12VON/OFF Control	->				9
				33	LED Power	P				8
				34	LED Power	P				7
				35	LED Control 5	<-				6
				36	LED Control 4	<-				5
				37	LED Control 3	<-				4
				38	LED Control 2	<-				3
				39	LED Control 1	<-				2
				40	GND	G				1
1-30	D1175202	CN403	BICU CN403	1	Scanner Motor_B	<-/->			Scanner Motor	4
				2	Scanner Motor_A	<-/->				3
				3	Scanner Motor_/B	<-/->				2
				4	Scanner Motor_/A	<-/->				1
1-31	D1175203	CN404	BICU CN404	1	GND	G			ARDF/Platen Cover Sensor	3
				2	ARDF/Platen Cover Sensor	<-				2
				3	Power: +5VE (PONSENS)	P			Scanner HP Sensor	1
				4	GND	G				3
				5	Scanner HP Sensor	<-				2
				6	Power: +5V (Scanner)	P				1
1-32	D1175205	CN402	BICU CN402	1	ARDF Reverse Solenoid	<-	D6065212 CN101		D6065212 CN101	1
				2	ARDF Feed Solenoid	<-				2
				3	Power: +24V	P				3
				4	Power: +24V	P				4
				5	DF Connection Detection	<-				5
				6	ARDF Feed Cover Sensor	<-				6
				7	ARDF Original Set Sensor	<-				7
				8	Power: +5VE (PONSENS)	P				8
				9	GND	G				9
				10	GND	G				10
				11	Registration Sensor	<-				11
				12	Power: +5V (Scanner)	P				12
				13	Encoder_A	<-				13
				14	DCM motor (-)	<-/->				14
				15	Encoder_B	<-				15
				16	DCM motor (+)	<-/->				16

1-33	D6065212	D606521 2 CN101	Relay CN101	1	ARDF Reverse Solenoid	<-		CN1	DFRB CN1	16
				2	ARDF Feed Solenoid	<-				15
				3	Power: +24V	P				14
				4	Power: +24V	P				13
				5	DF Connection Detection	<-				12
				6	ARDF Feed Cover Sensor	<-				11
				7	ARDF Original Set Sensor	<-				10
				8	Power: +5VE (PONSENS)	P				9
				9	GND	G				8
				10	GND	G				7
				11	Registration Sensor	<-				6
				12	Power: +5V (Scanner)	P				5
				13	Encoder A	<-				4
				14	DCM motor (-)	<-/->				3
				15	Encoder B	<-				2
				16	DCM motor (+)	<-/->				1
	T1	T1	T1	FG	G		T2	T2	T2	
1-34	D1965232	CN2	Polygon Relay 1 or 2 CN2	1	+24V PM	P		CN1	Polygon Motor	5
				2	GND	G				4
				3	Polygon Motor: ON	O				3
				4	Polygon Motor: Ready	I				2
				5	Polygon Motor: Clock	O				1
1-35	D1964313 (MP C306 Series) NA, TWN	D196525 9 CN73 (Drawer)	Drawer		Fusing Lamp: N	->			Fusing Lamp	
					N.C.	N				
					Ground Wire	G			Ground Wire	-
					Fusing Lamp: L	->			Fusing Lamp	
					N.C.	N				
					N.C.	N				
					(A1)NC Sensor 1: GND	G			NC Sensor 1	3
					(A2)NC Sensor 1: Sensor Output	<-				2
					(A3)NC Sensor 1: Compensation Output	<-				1
					N.C.	N				
					N.C.	N				
					N.C.	N				
					(A7/A10)Region/Generation Detection 1: GND	G			Region/Generation Detection 1 (MP C306 Series)	
					(A8)Region/Generation Detection 2: GND	G			Region/Generation Detection 2 (MP C406 Series)	
					N.C.	N				
					(A10)Region Detection: NA, TWN	<-			Region Detection	
					(A11)Region Detection: EU	<-			Region Detection	
					(A12)New Unit Detection: GND	G			New Unit Detection	2
					(A13)New Unit Detection	->				1
					(B1)Pressure Roller Thermistor: Center: GND	G			Pressure Roller Thermistor: Center	2
					(B2)Pressure Roller Thermistor: Center	<-				1
					(B3)Pressure Roller Thermistor: Rear: GND	G			Pressure Roller Thermistor: Rear	2
					(B4)Pressure Roller Thermistor: Rear	<-				1
					(B5)Pressure Roller Thermistor: Front: GND	G			Pressure Roller Thermistor: Front	2
					(B6)Pressure Roller Thermistor: Front	<-				1
					N.C.	N				
					N.C.	N				
					N.C.	N				
				D1964314 (MP C306 Series) EU	D196525 9 CN73 (Drawer)	Drawer		Fusing Lamp: N	->	
		N.C.	N							
		Ground Wire	G						Ground Wire	-
		Fusing Lamp: L	->						Fusing Lamp	
		N.C.	N							
		N.C.	N							
		(A1)NC Sensor 1: GND	G						NC Sensor 1	3
		(A2)NC Sensor 1: Sensor Output	<-							2
		(A3)NC Sensor 1: Compensation Output	<-							1
		N.C.	N							
		N.C.	N							
		N.C.	N							
		(A7/A10)Region/Generation Detection 1: GND	G						Region/Generation Detection 1 (MP C306 Series)	
		(A8)Region/Generation Detection 2: GND	G						Region/Generation Detection 2 (MP C406 Series)	
		N.C.	N							
		(A10)Region Detection: NA, TWN	<-						Region Detection	
		(A11)Region Detection: EU	<-						Region Detection	
		(A12)New Unit Detection: GND	G						New Unit Detection	2
		(A13)New Unit Detection	->							1
		(B1)Pressure Roller Thermistor: Center: GND	G						Pressure Roller Thermistor: Center	2
		(B2)Pressure Roller Thermistor: Center	<-							1
		(B3)Pressure Roller Thermistor: Rear: GND	G						Pressure Roller Thermistor: Rear	2
		(B4)Pressure Roller Thermistor: Rear	<-							1
		(B5)Pressure Roller Thermistor: Front: GND	G						Pressure Roller Thermistor: Front	2
		(B6)Pressure Roller Thermistor: Front	<-							1
		N.C.	N							
		N.C.	N							
		N.C.	N							
	1-36	D1966397	D117525 4 CN42	Relay CN42	11	+24VS1	P			ID Sensor Shutter Solenoid
10					ID Sensor Shutter Solenoid: Control	->				2
9					GND	G			ID Sensor	1
8					ID Sensor: R: PWM	->				2
7					ID Sensor R FB	<-				3
6					ID Sensor_C FB	<-			4	
5					+5V	P			5	
4					ID Sensor: C: PWM	->			6	
3					ID Sensor_C FB	<-			7	
2					ID Sensor F FB	<-			8	
1					ID Sensor: F: PWM	->			9	
1-37	D1175201	CN2	SBU CN2	1	LED Control 1	<-		CN1	LEDB CN1	6
				2	LED Control 2	<-			5	
				3	LED Control 3	<-			4	
				4	LED Control 4	<-			3	
				5	LED Control 5	<-			2	
				6	LED Power	P			1	
1-38	D6065210	CN3	DFRB CN3	1	GND	G			ARDF Registration Sensor	3
				2	Registration Sensor	<-			2	
				3	Power: +5V (Scanner)	P			1	
1-39	D6065211	CN4	DFRB CN4	1	ARDF Reverse Solenoid	<-			ARDF Reverse Solenoid	3
				2	Power: +24V	P			ARDF Feed Solenoid	1
				3	ARDF Feed Solenoid	<-				2
				4	Power: +24V	P	JCN402			1
				5	GND	G			ARDF Feed Cover Sensor	3
				6	ARDF Feed Cover Sensor	<-			2	
				7	Power: +5V (Scanner)	P			ARDF Original Set Sensor	1
				8	GND	G				3
				9	ARDF Original Set Sensor	<-				2
				10	Power: +5VE (PONSENS)	P				1

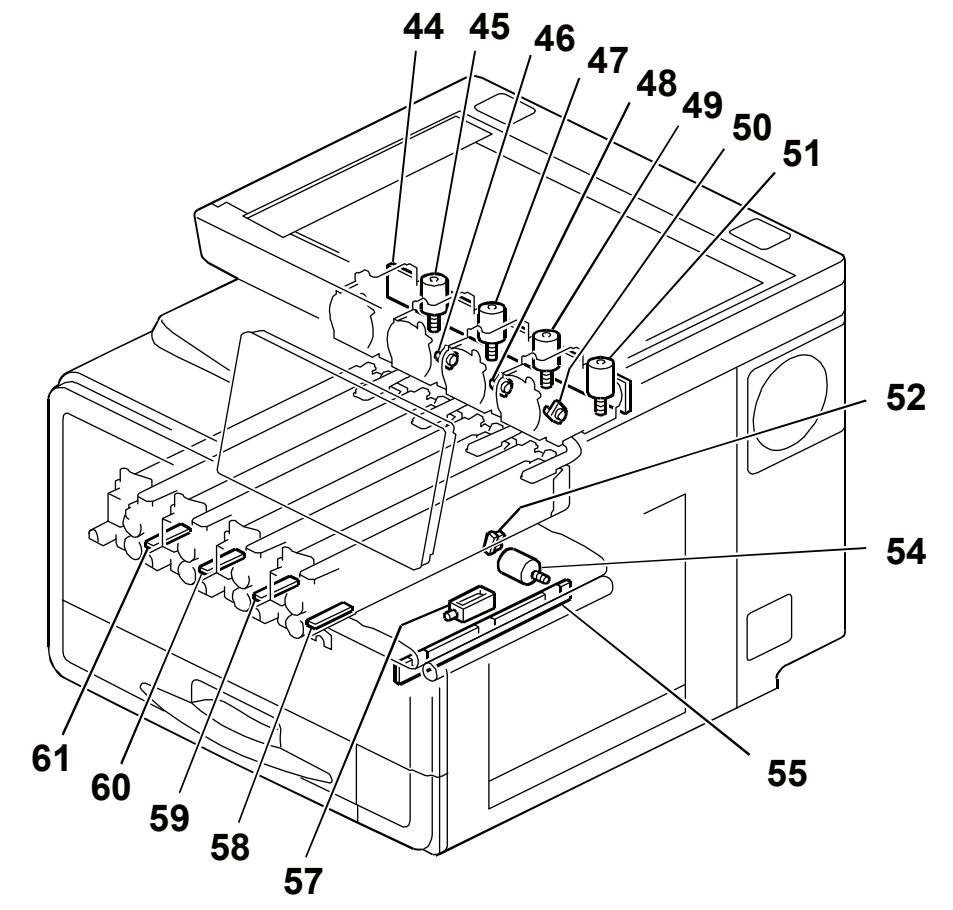
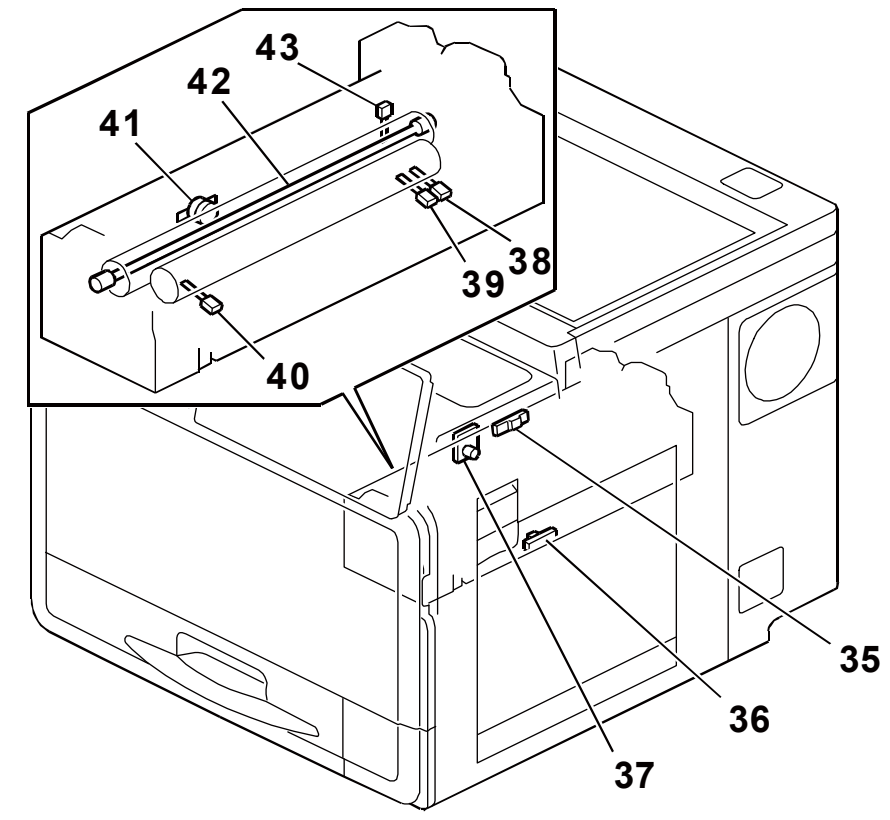
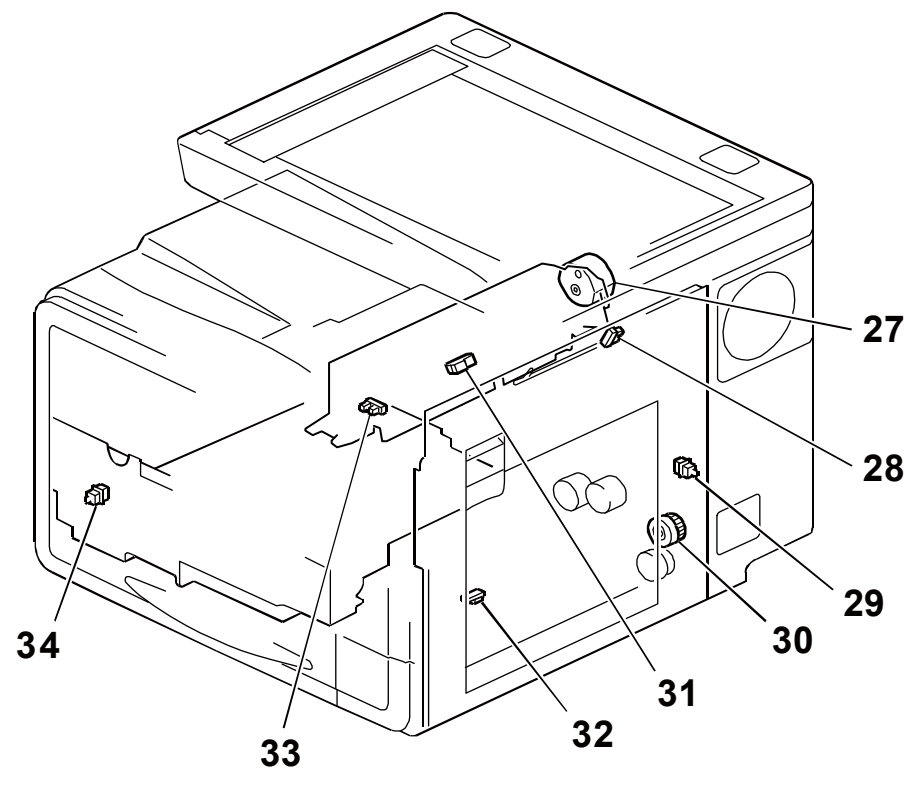
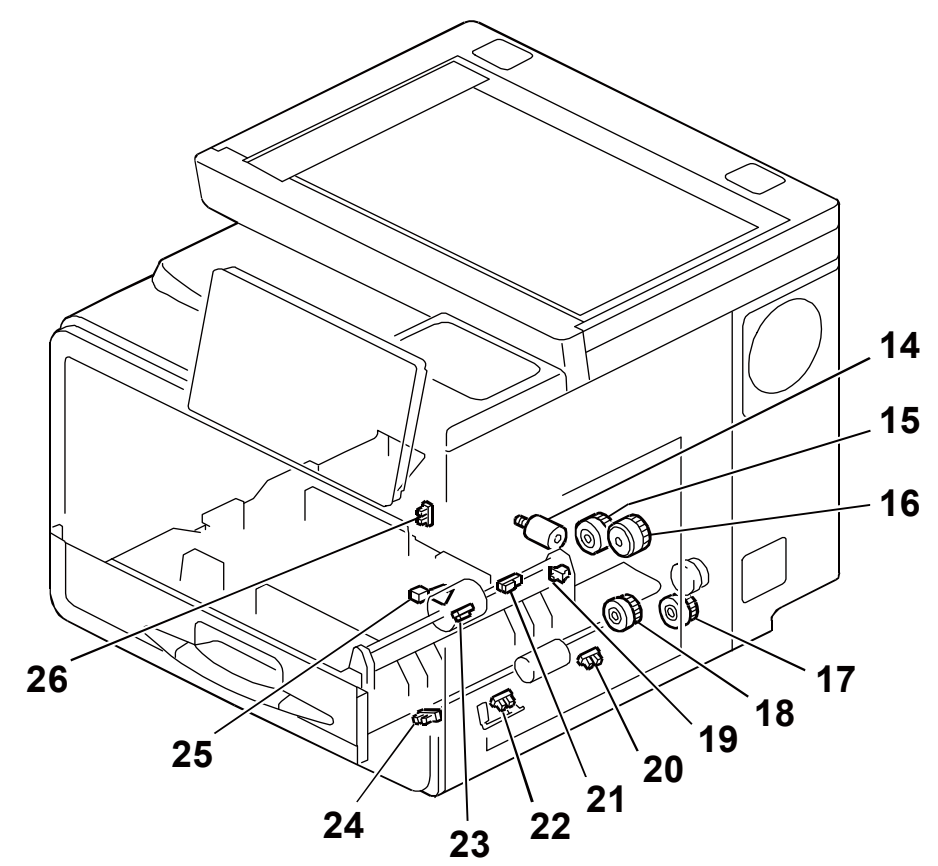
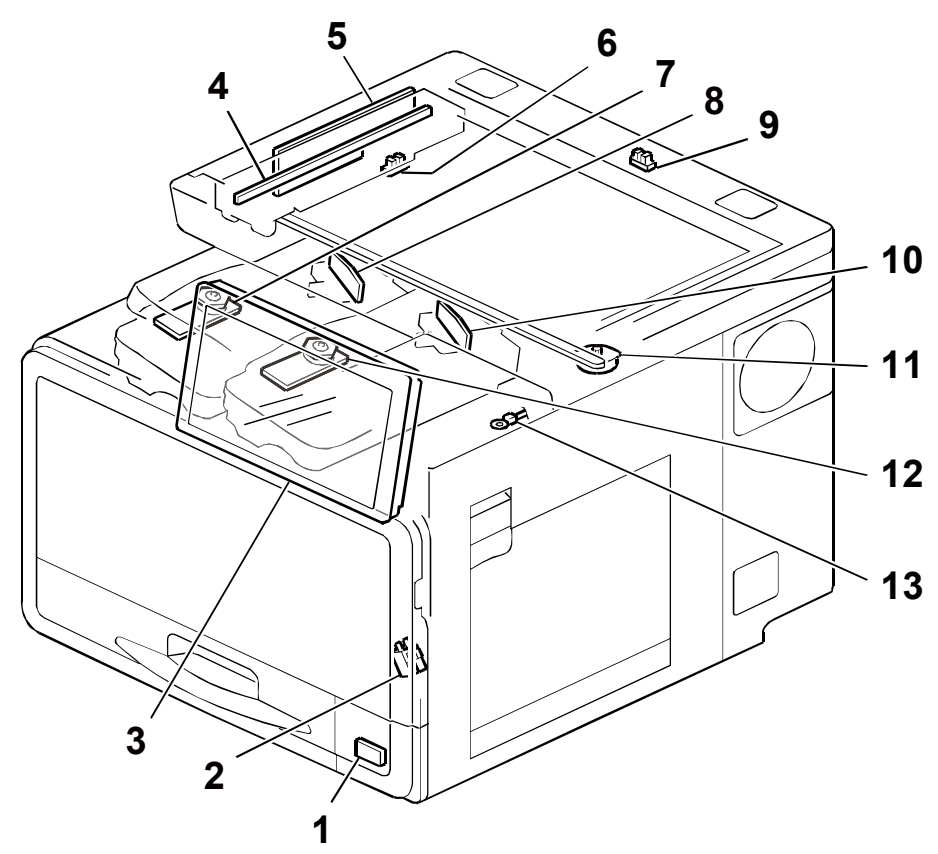
1-40	D6065213	CN2	DFRB CN2	1	DCM motor (-)	<-/->			ARDF Motor	6
				2	DCM motor (+)	<-/->				5
				3	Power: +5V (Scanner)	P				4
				4	GND	G				3
				5	Encoder B	<-				2
				6	Encoder A	<-				1
1-41	D2141469	CN112	BICU CN112	1	+5V	P		CN2	SUB	1
				2	USB Data Signal -	<-/->				2
				3	USB Data Signal +	<-/->				3
					NC	N				4
				4	GND	G				5

Option Harness

2-3	D1175239	CN516	Key Counter	1	GND	G		CN76	Key Counter Relay	4
				2	Key Counter: Set Sensor 1	<-				3
				3	24VforCounter	P				2
				4	Key Counter: Control	O				1
2-5	D5745300	CN527	BICU CN527	1	GND	G		CN	1-Bin Tray Paper Remaining Sensor	3
				2	1-Bin Tray Paper Remaining Sensor	<-				2
				3	+5VE LPS	P				1
				4	GND	G				
				5	1-Bin Tray Exit Sensor	<-		CN	1-Bin Tray Exit Sensor	3
				6	+5V	P				2
				7	1-Bin Tray Set sensor	<-				1
				9	+5VE LPS	P		CN527 CN	1-Bin Tray Set sensor 1-Bin LED	8
				10	1-Bin LED	->				2
				11	NC	N				1
2-6	B8705510	CN570	BICU CN570					CN	MKB	
				1	+5V	P				13
				2	Key Card: Set Sensor	<-				12
				3	b0 (Size 1)	->				11
				4	b1 (Size 2)	->				10
				5	b2 (Size 3)	->				9
				6	b3 (Size4)	->				8
				7	b4 (Mode 1)	->				7
				8	b5 (Mode 2)	->				6
				9	b6 (Duplex)	->				5
				10	b7 (Motor)	->				4
				11	GND	G				3
				12	Key Card: Control	->				2
				13	24VforCounter	P				1

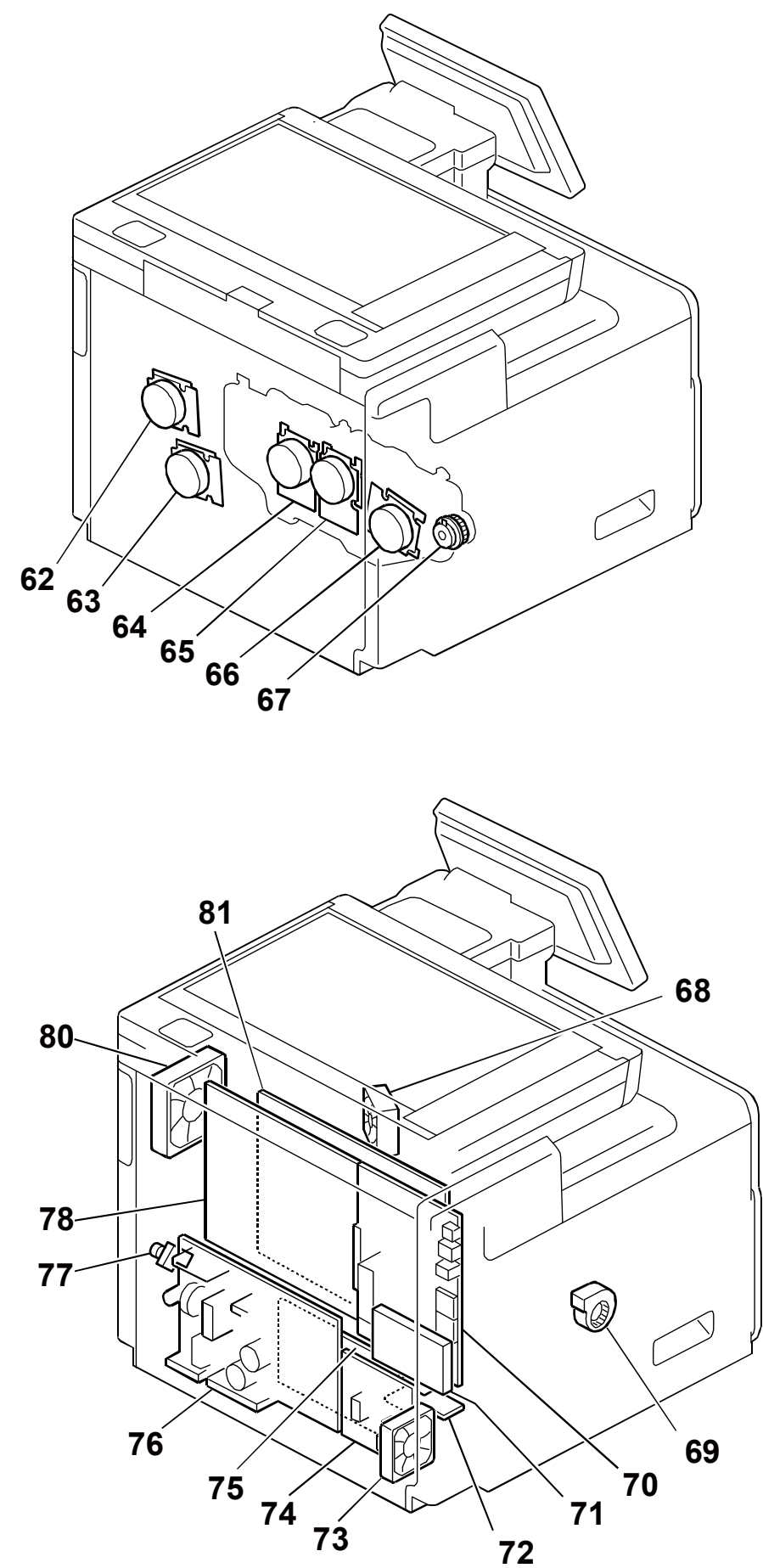
MP C306/C406 Series

ELECTRICAL COMPONENT LAYOUT (1/2)



MP C306/C406 Series

ELECTRICAL COMPONENT LAYOUT (2/2)



Symbol	Index No.	Description	P to P
Sensors			
S1	24	Bypass Tray Bottom Plate Lift Cam HP Sensor	B9
S2	20	Bypass Paper End Sensor	B9
S3	22	Bypass Paper Width Sensor	B9
S4	28	Duplex Entrance Sensor	B9
S5	36	Fusing Entrance Sensor	B9
S6	32	Duplex Exit Sensor	B9
S7	35	Fusing Exit Sensor	C9
S8	37	Fusing Thermopile	C9
S9	61	Toner Density Sensor (μ sensor):K	E9
S10	60	Toner Density Sensor (μ sensor):C	E9
S11	59	Toner Density Sensor (μ sensor):M	E9
S12	58	Toner Density Sensor (μ sensor):Y	E9
S13	55	ID Sensor	D1
S14	52	ITB Contact Sensor	B1
S15	25	Paper End Sensor	C1
S16	23	Paper Feed Sensor	C1
S17	9	ARDF/Platen Cover Sensor	G7
S19	21	Registration Sensor	C1
S20	6	Scanner HP Sensor	G7
S21	1	Temperature/Humidity Sensor	E7
S22	46	Toner End Sensor:C	E9
S23	48	Toner End Sensor:M	E9
S24	50	Toner End Sensor:Y	E9
S25	33	Waste Toner Full Sensor	A2
S26	26	Tray Lift Sensor	A2
S27	31	Paper Exit Sensor	C9

Symbol	Index No.	Description	P to P
PCBs			
PCB1	72	ACVB	F4
PCB2	78	BiCU	D5
PCB3	70	Controller Board	A6
PCB4	81	Power Pack (Development)	E2
PCB5	75	Power Pack (Transfer)	A2
PCB6	44	Bottle ID Chip Contact Board	D7
PCB7	8	LD Board (K,C)	F8
PCB8	10	LD Board (M,Y)	F8
PCB9	74	PSU (AC)	F2
PCB10	5	SBU	F7
PCB11	76	PSU (DC)	G3

Solenoids			
SOL1	57	Shutter Solenoid	D1
SOL2	27	Paper Exit Rotary Solenoid	C9

Switches			
SW1,2	2	Interlock Switches	G1
SW3	77	Main Power Switch(DC Switch)	C1
SW4	29	Right Cover Sensor	B2
SW5	19	Paper Tray Sensor	A2
SW6	34	Waste Toner Bottle Set Switch	E2

Symbol	Index No.	Description	P to P
Motors			
M1	64	Development Motor (CMY)	D3
M2	66	Drum Motor (K)	D3
M3	65	Drum Motor (CMY)	D3
M4	62	Fusing Motor	C3
M5	54	ITB Contact Motor	B1
M6	63	Paper Transport Motor	C3
M7	7	Polygon Motor (K.C)	E8
M8	12	Polygon Motor (M.Y)	F8
M9	11	Scanner Motor	G7
M10	45	Toner Supply Motor (K)	D9
M11	47	Toner Supply Motor (C)	D9
M12	49	Toner Supply Motor (M)	D9
M13	51	Toner Supply Motor (Y)	D9
M14	14	Tray Lift Motor	A2

Fans			
FAN1	73	PSU Fan	D2
FAN2	69	PCDU Cooling Duct Fan	D2
FAN3	80	Exhaust Fan	C9
FAN4	68	LD Unit Cooling Fan	E8

Clutches			
CL1	18	Bypass Tray Bottom Plate Lifting-up Cam Clutch	B9
CL2	17	Bypass Feed Clutch	C2
CL3	67	Development Clutch (K)	D3
CL4	30	Duplex Clutch	C2
CL5	15	Paper Feed Clutch	C3
CL6	16	Registration Clutch	C2

Symbol	Index No.	Description	P to P
Thermistors			
TH1	39	Pressure Roller Thermistor (Front)	C9
TH2	38	Pressure Roller Thermistor (Rear)	C9
TH3	40	Pressure Roller Thermistor (Center)	C9
TH4	13	Image Creation Temperature Sensor (thermistor)	E8
TH5	43	Fusing Thermistor (NC Sensor)	D9

Thermostat			
TS1	41	Thermostat	-
Lamps			
L1	42	Fusing Lamp	D9
L2	4	Scanner Carriage (LED)	F2

Other			
OT1	3	Operation Panel	F3
OT2	71	HDD	A8