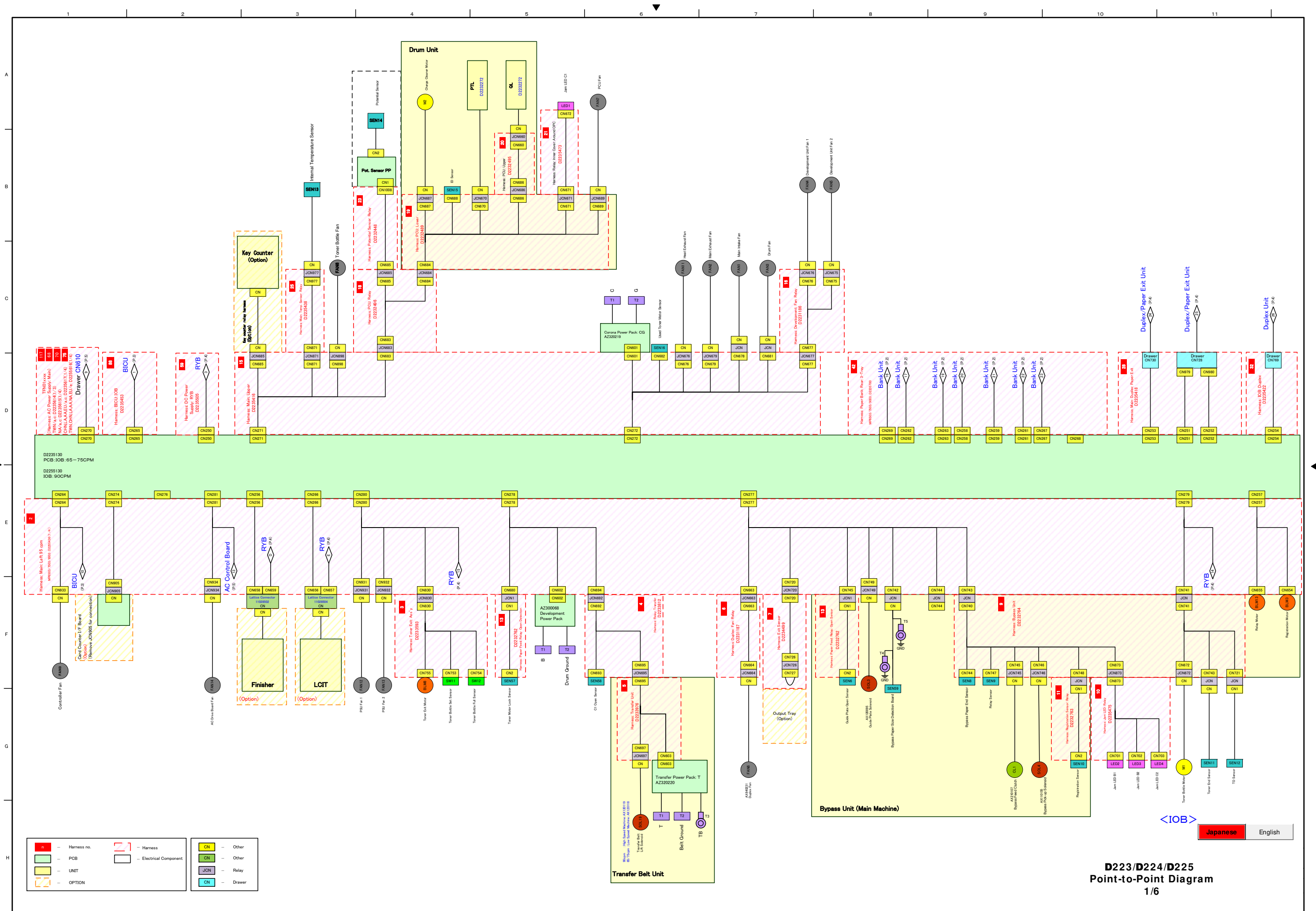
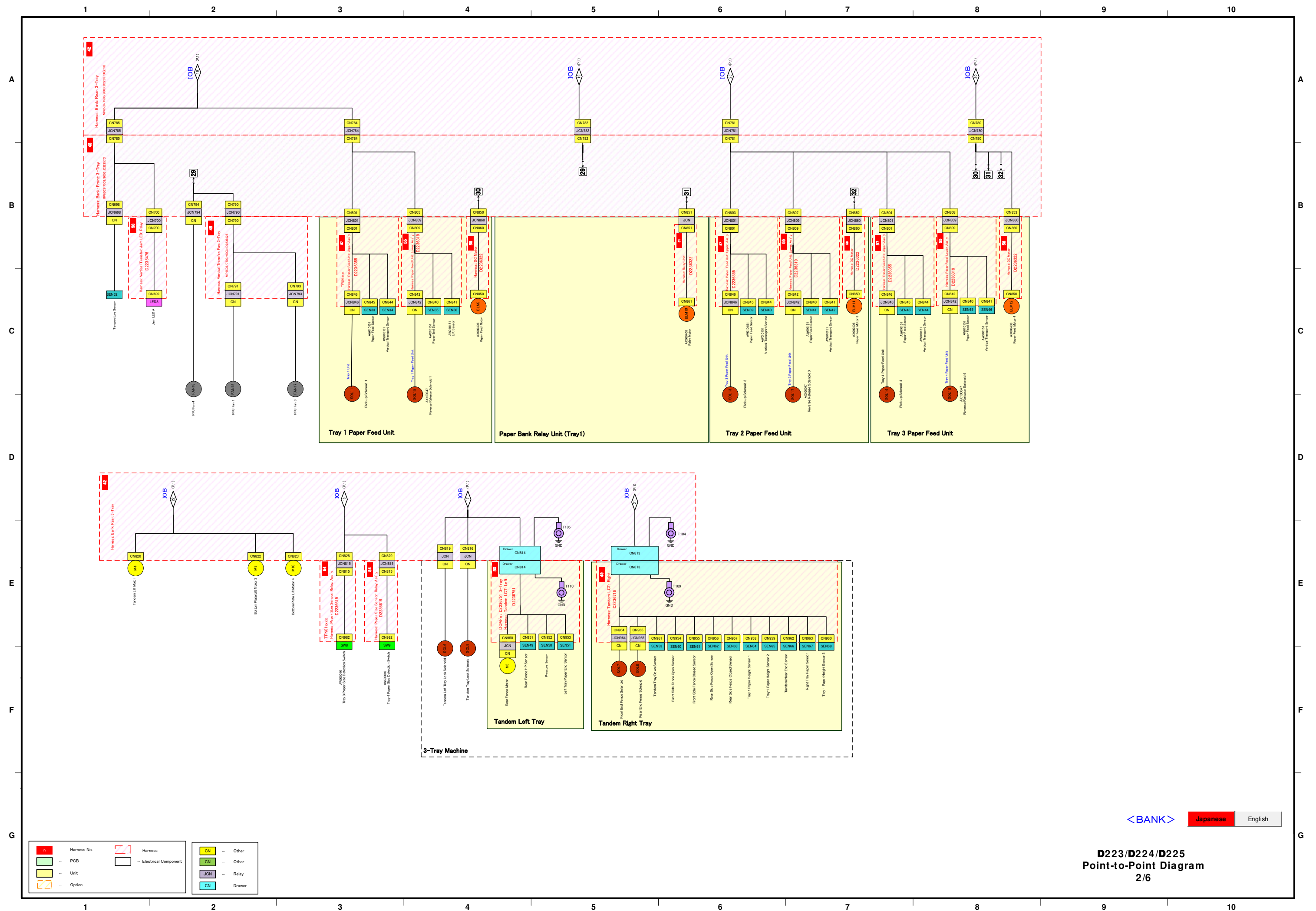
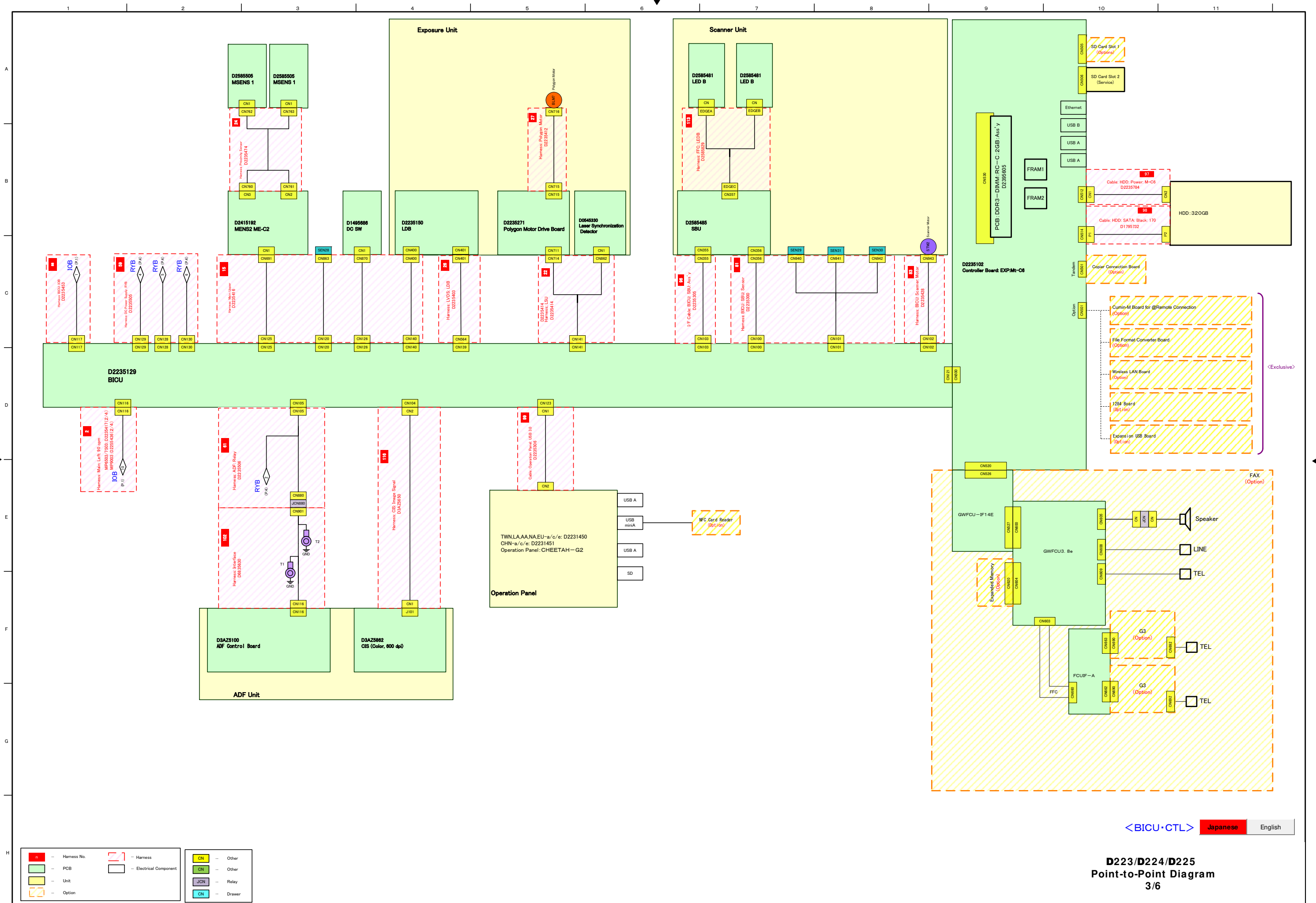


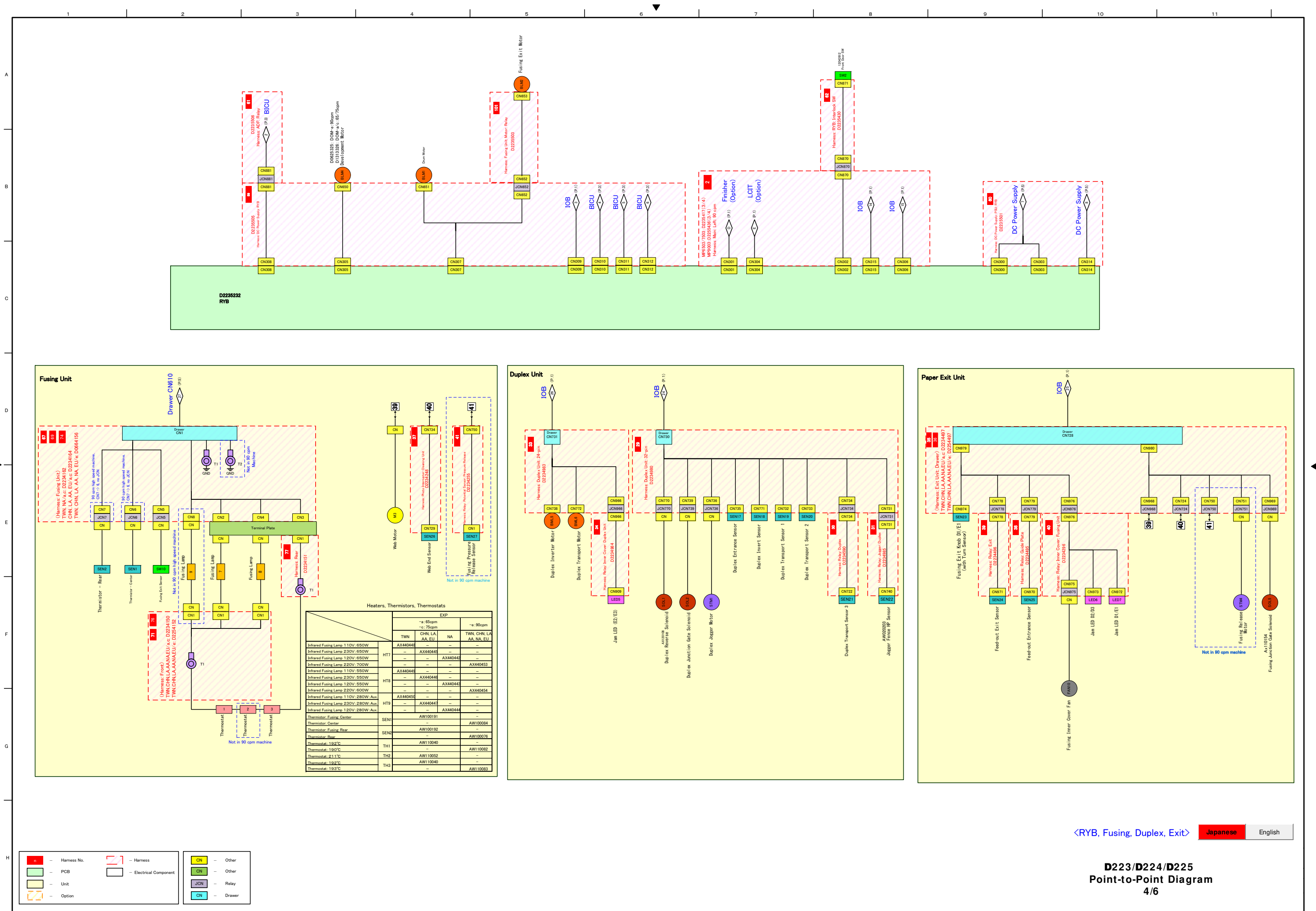


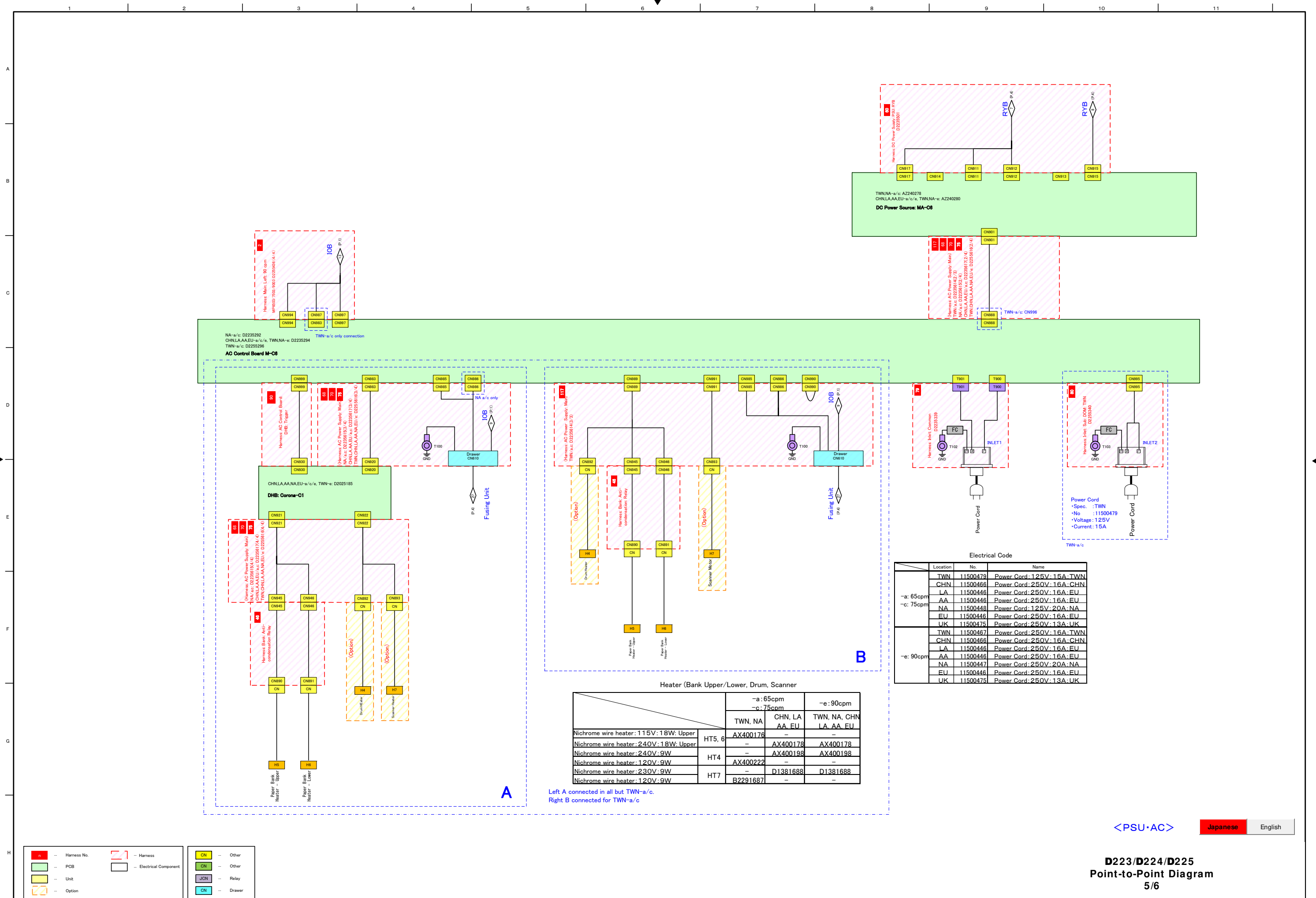
D223/D224/D225
Point-to-Point Diagram
1/6

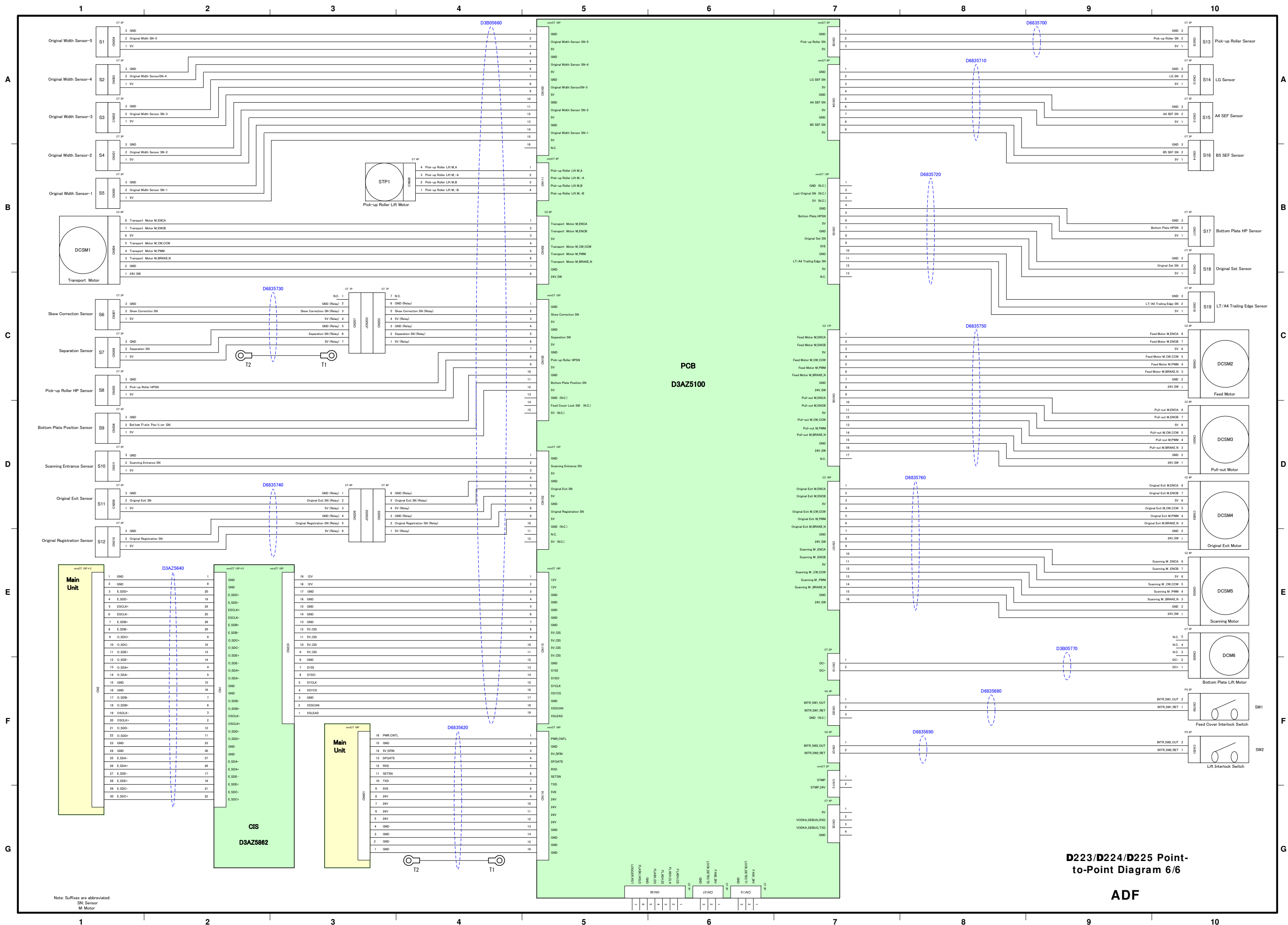
<IOB>
Japanese English











D223/D224/D225 Point-to-Point Diagram 6/6

ADF

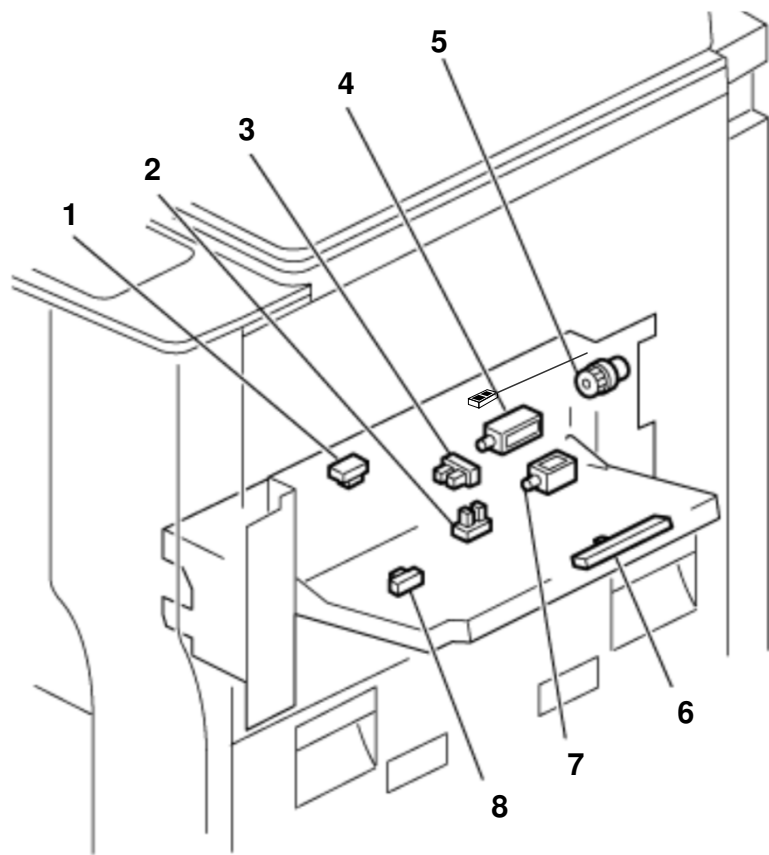


Fig. 1

d223d7000

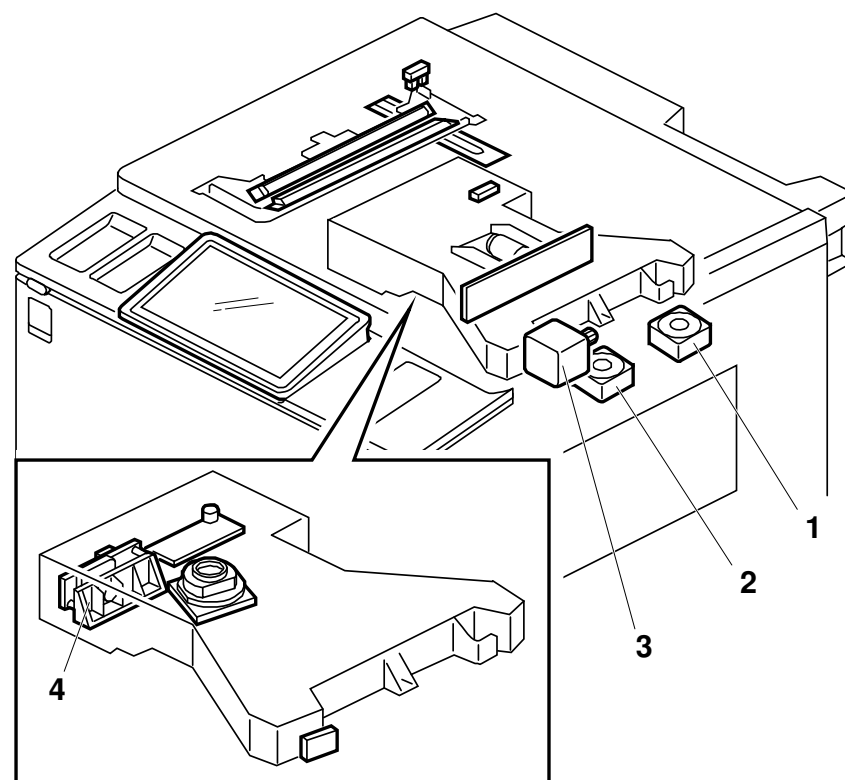


Fig. 2

d223d7006

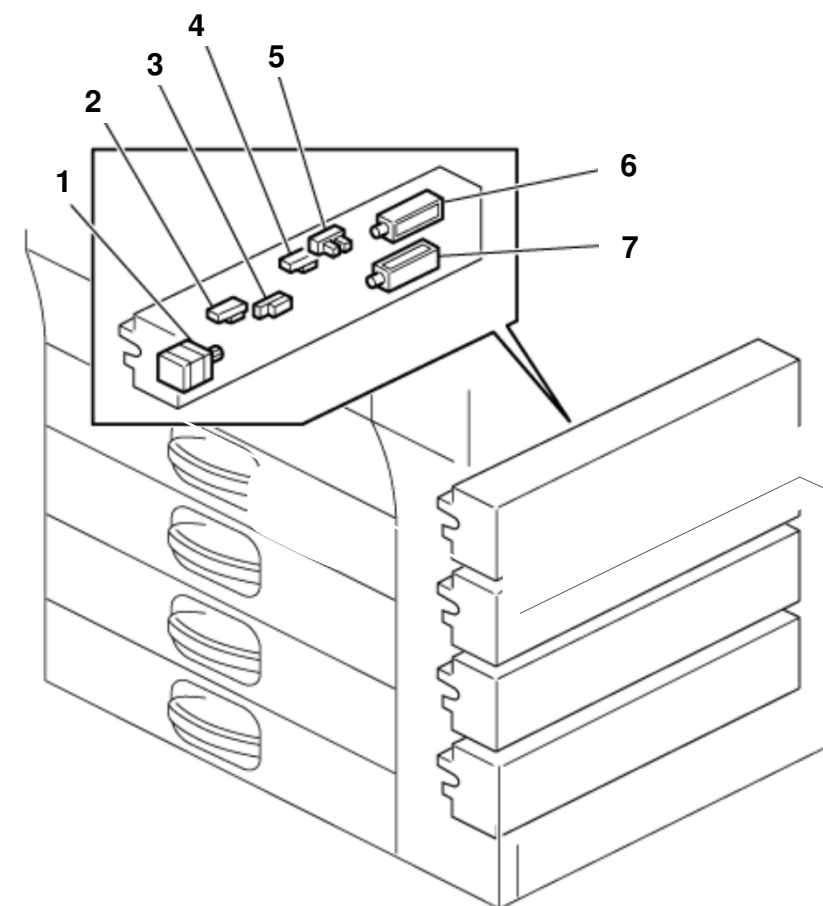


Fig. 3

d223c6125

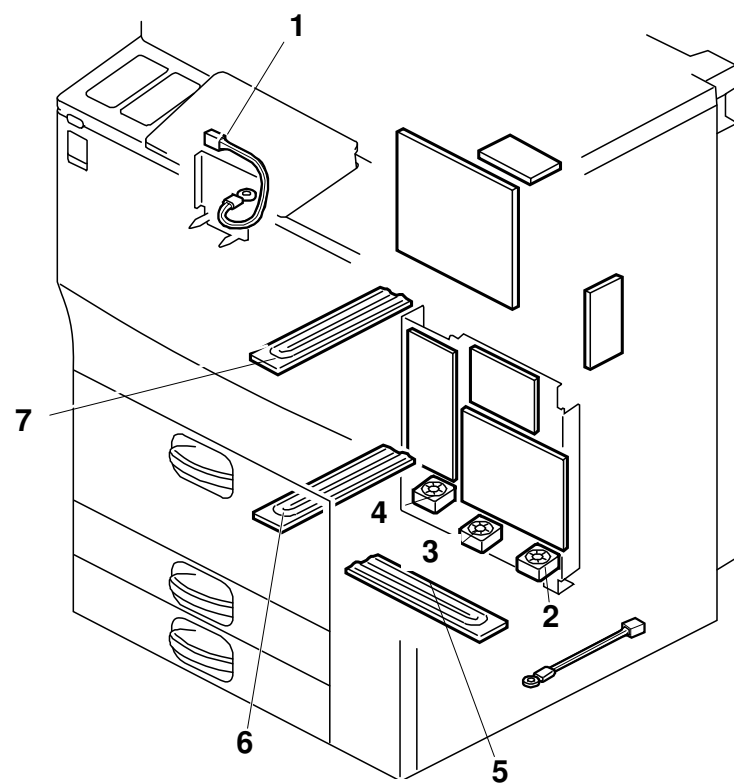


Fig. 4

d223d7007

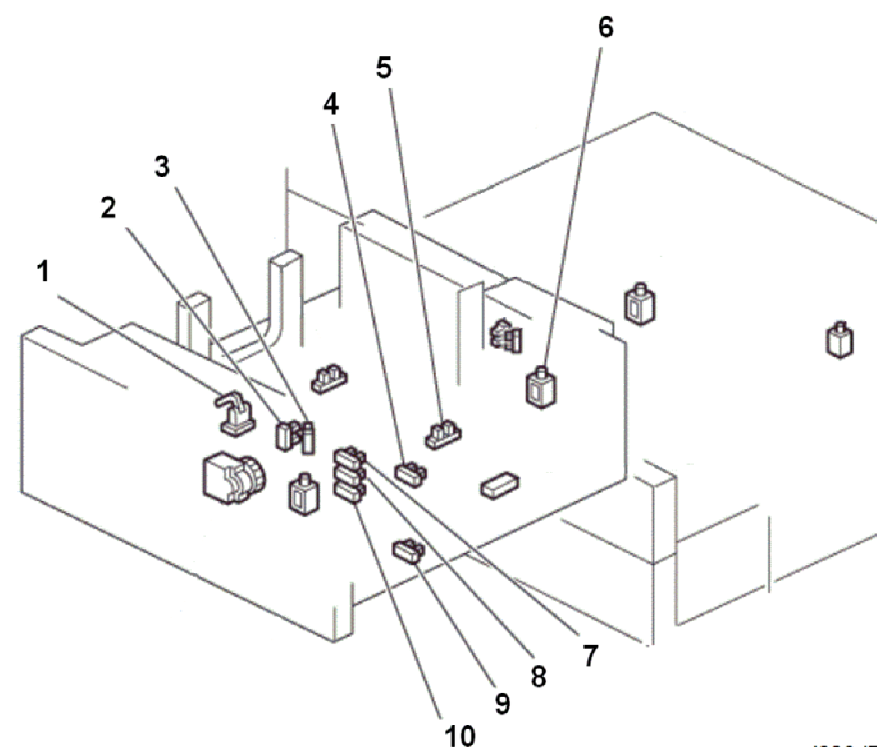


Fig. 5

d223d7003

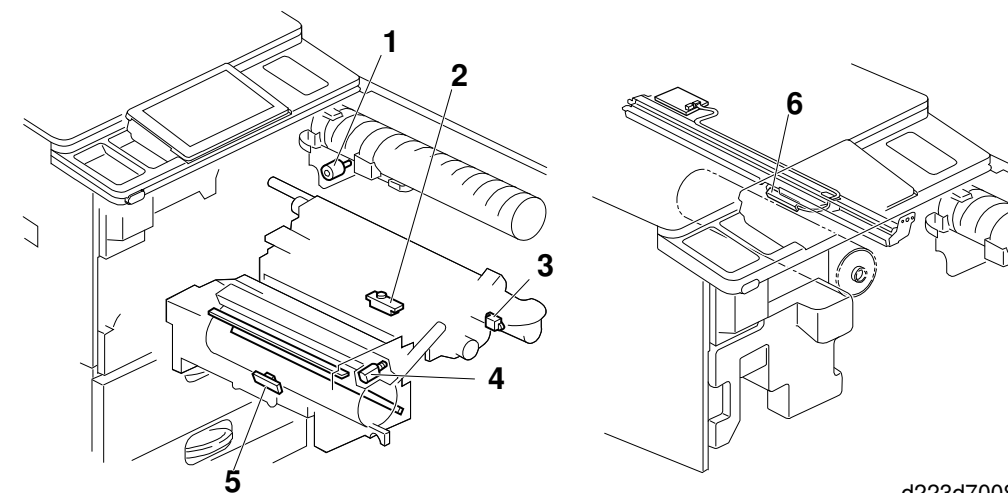


Fig. 6

d223d7008

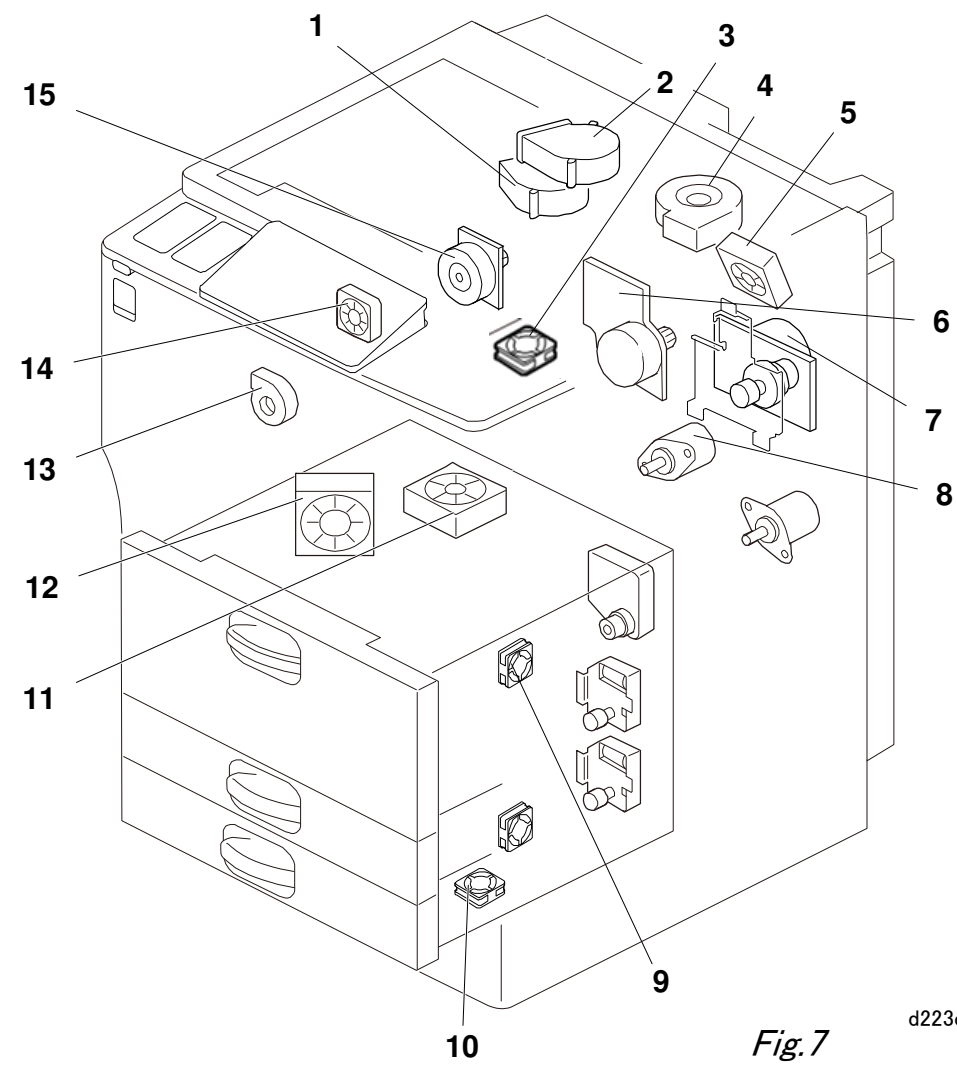


Fig. 7

d223c6128

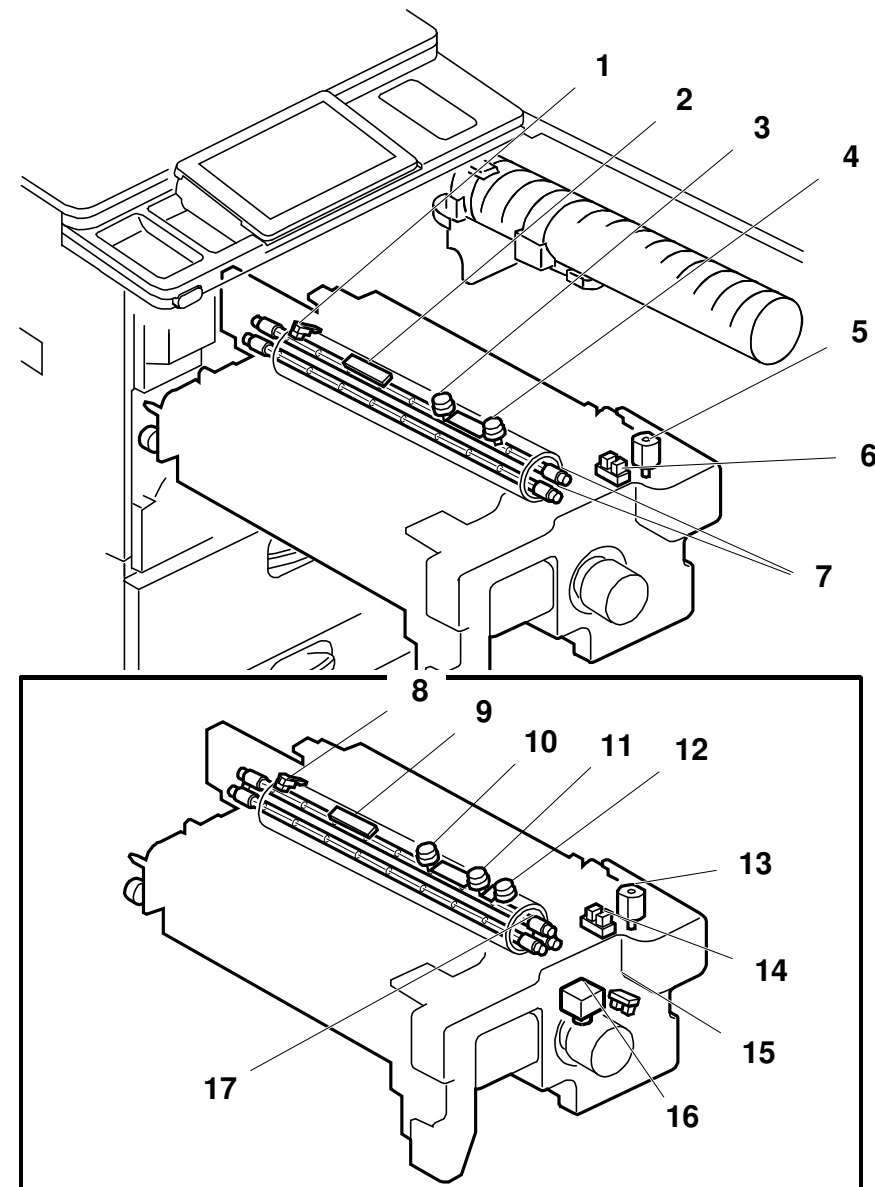


Fig. 8

d223d7012

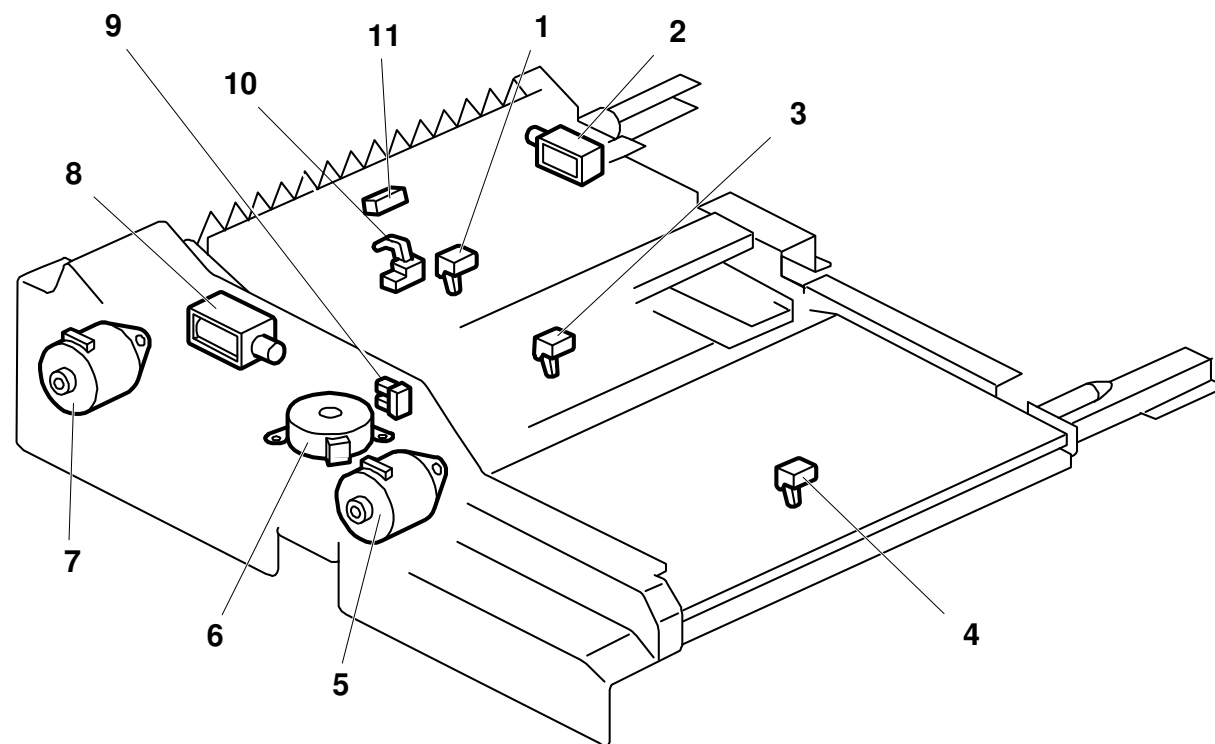


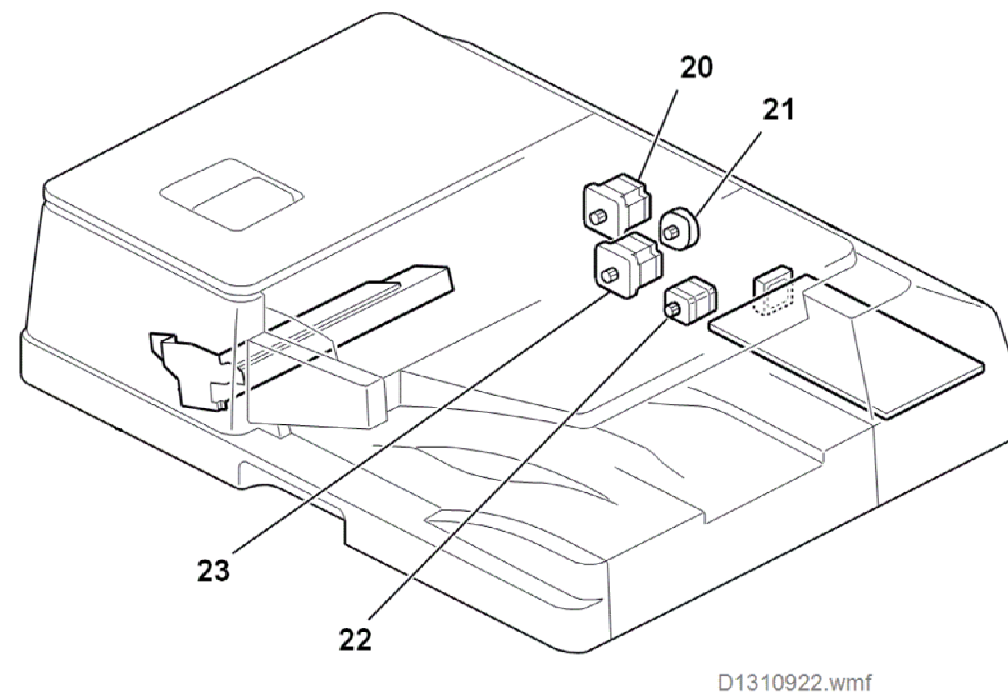
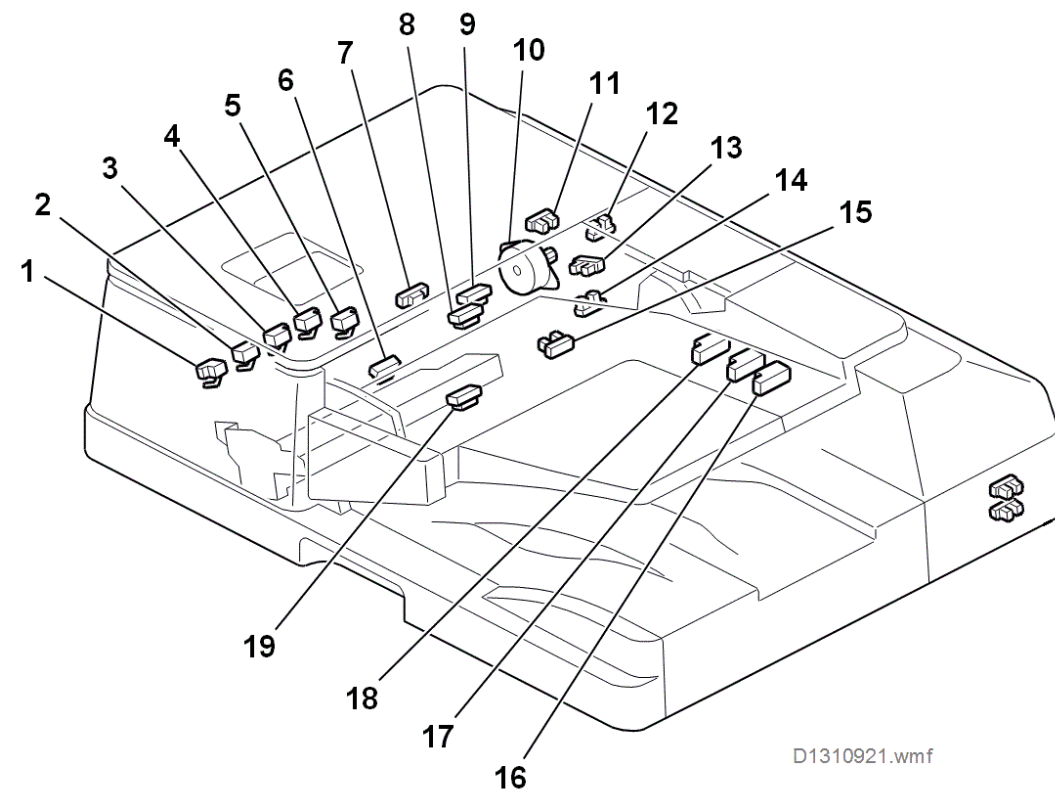
Fig. 9

d223d7013

Symbols	Index No.	Description	P to P	Page
Sensors				
SEN1	Fig.8-2/8	Thermistor-Center	E2	4/6
SEN2	Fig.8-1/9	Thermistor-Rear	E1	4/6
SEN6	Fig.1-3	Guide Plate Open Sensor	G8	1/6
SEN8	Fig.1-2	Bypass Paper End Sensor	G9	1/6
SEN9	Fig.1-8	Relay Sensor	G9	1/6
SEN10	Fig.1-1	Registration Sensor	G10	1/6
SEN11	Fig.6-3	Toner End Sensor	G11	1/6
SEN12	Fig.6-2	TD Sensor	G11	1/6
SEN13	Fig.4-1	Internal Temperature Sensor	B3	1/6
SEN14	Fig.6-6	Potential Sensor	A4	1/6
SEN15	Fig.6-5	ID Sensor	B4	1/6
SEN16	-	Used Toner Motor Sensor	C6	1/6
SEN17	Fig.9-11	Duplex Entrance Sensor	E7	4/6
SEN18	Fig.9-10	Duplex Invert Sensor	E7	4/6
SEN19	Fig.9-1	Duplex Transport Sensor 1	E7	4/6
SEN20	Fig.9-3	Duplex Transport Sensor 2	E7	4/6
SEN21	Fig.9-4	Duplex Transport Sensor 3	F8	4/6
SEN22	Fig.9-9	Jogger Fence HP Sensor	F8	4/6
SEN23	-	Fusing Exit Knob D1/E1 (With Turn Sensor)	E9	4/6
SEN24	-	Feed-out Exit Sensor	F9	4/6
SEN25	-	Feed-out Entrance Sensor	F9	4/6
SEN26	Fig.8-6/14	Web End Sensor	E4	4/6
SEN27	-	Fusing Pressure Release Sensor	E5	4/6
SEN28	-	-	C3	3/6
SEN29	-	-	C7	3/6
SEN30	-	-	C8	3/6
SEN31	-	-	C8	3/6
SEN32	-	Temperature Sensor	C1	2/6
SEN33	-	Paper Feed Sensor	C3	2/6
SEN34	-	Vertical Transport Sensor	C3	2/6
SEN35	Fig.3-4	Paper End Sensor	C4	2/6
SEN36	Fig.3-5	Lift Sensor	C4	2/6
SEN39	Fig.3-2	Paper Feed Sensor	C6	2/6
SEN40	Fig.3-3	Vertical Transport Sensor	C6	2/6
SEN41	Fig.3-2	Paper Feed Sensor	C7	2/6
SEN42	Fig.3-3	Vertical Transport Sensor	C7	2/6
SEN43	Fig.3-2	Paper Feed Sensor	C7	2/6
SEN44	Fig.3-3	Vertical Transport Sensor	C8	2/6
SEN45	Fig.3-2	Paper Feed Sensor	C8	2/6
SEN46	Fig.3-3	Vertical Transport Sensor	C8	2/6
SEN49	-	Rear Fence HP Sensor	F4	2/6
SEN50	Fig.5-5	Pressure Sensor	F5	2/6
SEN51	Fig.5-1	Left Tray Paper End Sensor	F5	2/6
SEN53	Fig.5-9	Tandem Tray Down Sensor	F5	2/6
SEN57	-	Toner Motor Lock Sensor	G5	1/6
SEN58	-	C1 Open Sensor	G6	1/6
SEN59	Fig.1-6	Bypass Paper Size Detection Board	G8	1/6
SEN60	Fig.5-3	Front Side Fence Open Sensor	F6	2/6
SEN61	Fig.5-2	Front Side Fence Closed Sensor	F6	2/6
SEN62	Fig.5-3	Rear Side Fence Open Sensor	F6	2/6
SEN63	Fig.5-2	Rear Side Fence Closed Sensor	F6	2/6
SEN64	Fig.5-7	Tray 1 Paper Height Sensor 1	F6	2/6
SEN65	Fig.5-8	Tray 1 Paper Height Sensor 2	F6	2/6
SEN66	Fig.5-4	Tandem Near End Sensor	F7	2/6
SEN67	-	Right Tray Paper Sensor	F7	2/6
SEN68	Fig.5-10	Tray 1 Paper Height Sensor 3	F7	2/6

Symbols	Index No.	Description	P to P	Page
Motors				
M1	Fig.6-1	Toner Bottle Motor	M1	1/6
M2	Fig.6-4	Charge Cleaner Motor	A4	1/6
M3	Fig.8-5/13	Web Motor	E4	4/6
M4	-	Tandem Lift Motor	E1	2/6
M5	-	Rear Fence Motor	F4	2/6
M9	-	Bottom Plate Lift Motor3	E2	2/6
M10	-	Bottom Plate Lift Motor4	E3	2/6
BLM1	Fig.7-6	Drum Motor	B4	4/6
BLM2	Fig.7-15	Fusing Exit Motor	A5	4/6
BLM3	Fig.7-8	Registration Motor	F11	1/6
BLM4	Fig.7-7	Development Motor	B3	4/6
BLM5	Fig.9-7	Duplex Inverter Motor	E5	4/6
BLM6	Fig.9-5	Duplex Transport Motor	E5	4/6
BLM7	Fig.2-4	Polygon Motor	A5	3/6
BLM8	-	Toner Exit Motor	G4	1/6
BLM9	Fig.3-1	Paper Feed Motor	C4	2/6
BLM10	-	Relay Motor	C6	2/6
BLM11	-	Paper Feed Motor3	C7	2/6
BLM12	-	Paper Feed Motor4	C8	2/6
BLM13	-	Relay Motor	F11	1/6
STM1	Fig.9-6	Duplex Jogger Motor	F7	4/6
STM2	Fig.2-3	Scanner Motor	C8	3/6
STM4	-	Fusing Release Motor	F11	4/6
Fans				
FAN1	Fig.7-4	Main Intake Fan	C7	1/6
FAN2	Fig.7-2	Main Exhaust Fan	C7	1/6
FAN3	Fig.7-5	Drum Fan	C7	1/6
FAN4	Fig.2-2	Development Unit Fan 1	B7	1/6
FAN5	Fig.2-1	Development Unit Fan 2	B8	1/6
FAN6	Fig.7-11	Duplex Fan	G7	1/6
FAN7	Fig.7-12	PCU Fan	A6	1/6
FAN8	Fig.7-14	Toner Bottle Fan	C3	1/6
FAN9	Fig.7-3	Controller Fan	F1	1/6
FAN10	Fig.7-13	Fusing Inner Cover Fan	G10	4/6
FAN11	Fig.7-1	Heat Exhaust Fan	C6	1/6
FAN12	Fig.4-2	PSU Fan1	G4	1/6
FAN13	Fig.4-3	PSU Fan2	G4	1/6
FAN14	Fig.4-4	AC Drive Board Fan	G2	1/6
FAN18	Fig.7-10	PFU Fan4	C2	2/6
FAN19	Fig.7-9	PFU Fan1	C2	2/6
Heaters				
H4	Fig.4-7	Drum Heater	E6/G4	5/6
H5	Fig.4-6	Paper Bank Heater-Upper	F6/G3	5/6
H6	Fig.4-5	Paper Bank Heater-Lower	F6/G3	5/6
H7		Scanner Motor	E7/G4	5/6

Symbols	Index No.	Description	P to P	Page
LEDs				
LED1	-	Jam LED C1	A5	1/6
LED2	-	Jam LED B1	G10	1/6
LED3	-	Jam LED B2	G10	1/6
LED4	-	Jam LED C2	G11	1/6
LED5	-	Jam LED (E2/E3)	F6	4/6
LED6	-	Jam LED D2/D3	F10	4/6
LED7	-	Jam LED D1/E1	F10	4/6
LED8	-	Jam LED A	C2	2/6
Solenoids				
SOL1	Fig.9-8	Duplex Reverse Solenoid	F6	4/6
SOL2	Fig.9-2	Duplex Junction Gate Solenoid	F6	4/6
SOL3	Fig.1-7	Guide Plate Solenoid	G8	1/6
SOL4	Fig.1-4	Bypass Pick-up Solenoid	G10	1/6
SOL5	-	Fusing Junction Gate Solenoid	F11	4/6
SOL6	Fig.5-6	Tandem Left Tray Solenoid	F4	2/6
SOL7	-	Front End Fence Solenoid	F5	2/6
SOL8	-	Rear End Fence Solenoid	F5	2/6
SOL9	-	Tandem Tray Lock Solenoid	F4	2/6
SOL11	Fig.3-6	Pick-up Solenoid 1	C3	
SOL13	Fig.3-6	Pick-up Solenoid 3	C6	2/6
SOL14	Fig.3-6	Pick-up Solenoid 4	C8	2/6
SOL15	Fig.3-7	Reverse Release Solenoid 1	C4	2/6
SOL17	Fig.3-7	Reverse Release Solenoid 3	C7	2/6
SOL18	Fig.3-7	Reverse Release Solenoid 4	C8	2/6
SOL19	-	Transfer Belt Lift Solenoid	H6	1/6
Clutches				
CL1	Fig.1-5	Bypass Feed Clutch	G9	1/6
Switches				
SW2	-	Front Door SW	A8	4/6
SW8	-	Tray 3 Paper Size Detection Switch	F4	2/6
SW9	-	Tray 4 Paper Size Detection Switch	F4	2/6
SW10	-	Fusing Exit Sensor	E2	4/6
SW11	-	Toner Bottle Set Sensor	G4	1/6
SW12	-	Toner Bottle Full Sensor	G5	1/6
Fusing Lamps				
8	Fig.8-7/17	Fusing Lamp	E3	4/6
7	Fig.8-7/17	Fusing Lamp	E2	4/6
9	Fig.8-7/17	Fusing Lamp	E2	4/6
Thermostats				
1	Fig.8-3/10	Thermostat	G2	4/6
2	Fig.8-11	Thermostat	G2	4/6
3	Fig.8-4/12	Thermostat	G3	4/6



Symbols	Index No.	Description	P to P	Page
Sensors				
S1	1	Original Width Sensor-5	A1	6/6
S2	2	Original Width Sensor-4	A1	6/6
S3	3	Original Width Sensor-3	A1	6/6
S4	4	Original Width Sensor-2	B1	6/6
S5	5	Original Width Sensor-1	B1	6/6
S6	9	Skew Correction Sensor	C1	6/6
S7	8	Separation Sensor	C1	6/6
S8	11	Pick-up Roller HP Sensor	C1	6/6
S9	13	Bottom Plate Position Sensor	D1	6/6
S10	7	Scanning Entrance Sensor	D1	6/6
S11	19	Original Exit Sensor	D1	6/6
S12	6	Original Registration Sensor	E1	6/6
S13	12	Pick-up Roller Sensor	A10	6/6
S14	18	LG Sensor	A10	6/6
S15	17	A4 SEF Sensor	A10	6/6
S16	16	B5 SEF Sensor	B10	6/6
S17	15	Bottom Plate HP Sensor	B10	6/6
S18	14	Original Set Sensor	B10	6/6
S19	-	LT/A4 Trailing Edge Sensor	C10	6/6
Motors				
STP1	10	Pick-up Roller Lift Motor	B3	6/6
DCSM1	23	Transport Motor	B1	6/6
DCSM2	20	Feed Motor	C10	6/6
DCSM3	-	Pull-out Motor	D10	6/6
DCSM4	22	Original Exit Motor	D10	6/6
DCSM5	-	Scanning Motor	E10	6/6
DCSM6	21	Bottom Plate Lift Motor	E10	6/6
Switches				
SW1	-	Feed Cover Interlock Switch	F10	6/6
SW2	-	Lift Interlock Switch	F10	6/6

Harness No.	Harness P/N	No.	ON (From)		Signal Info.			Relay		ON (To)		
			Device	Pin No.	Signal Name	DIR	L	H	Harness P/N	No.	Device	Pin No.
28	D2235418	CN253	IOB	A1	Duplex Reverse Solenoid: +24VS	P			D2234980	CN730	Duplex Reverse Solenoid	1
				A2	Duplex Reverse Solenoid: Drive	O	OFF	ON				2
				A3	Duplex Junction Gate Solenoid: +24VS	P						3
				A4	Duplex Junction Gate Solenoid: Drive	O	OFF	ON				4
				A5	Duplex UNISetDetection: Input	I	Set	Not Set				5
				A6	Duplex UNISetDetection: GND	G						6
				A7	Duplex Entrance Sensor: +5V	P						7
				A8	Duplex Entrance Sensor: Input	I	Paper Not Detected	Paper Detected				8
				A9	Duplex Entrance Sensor: GND	G						9
				A10	Duplex Invert Sensor: +5V	P						10
				A11	Duplex Invert Sensor: Input	I	Paper Detected	Paper Not Detected				11
				A12	Duplex Invert Sensor: GND	G						12
				A13	Duplex Transport Sensor 1: +5V	P						13
				A14	Duplex Transport Sensor 1: Input	I	Paper Detected	Paper Not Detected				14
				A15	Duplex Transport Sensor 1: GND	G						15
				B1	Jogger Fence HP Sensor: +5V	P						16
				B2	Jogger Fence HP Sensor: Input	I	Without Feeler	With Feeler				17
				B3	Jogger Fence HP Sensor: GND	G						18
				B4	Duplex Transport Sensor 2: +5V	P						19
				B5	Duplex Transport Sensor 2: Input	I	Paper Detected	Paper Not Detected				20
				B6	Duplex Transport Sensor 2: GND	G						21
				B7	Duplex Transport Sensor 3: +5V	P						22
				B8	Duplex Transport Sensor 3: Input	I	Paper Detected	Paper Not Detected				23
				B9	Duplex Transport Sensor 3: GND	G						24
				B10	Duplex Jogger Motor: +24VS	P						25
				B11	Duplex Jogger Motor: APhaseDrive	O	OFF	ON				26
				B12	Duplex Jogger Motor: - APhaseDrive	O	OFF	ON				27
				B13	Duplex Jogger Motor: - BPhaseDrive	O	OFF	ON				28
				B14	Duplex Jogger Motor: BPhaseDrive	O	OFF	ON				29
				B15	Duplex Jogger Motor: +24VS	P						30
		-		-	NC							31
		-		-	NC							32
		CN251	1	Feed-out Entrance Sensor: +5V	P			D2254497	CN979	Feed-out Entrance Sensor	17	
			2	Feed-out Entrance Sensor: Input	I	Paper Detected	Paper Not Detected				16	
			3	Feed-out Entrance Sensor: GND	G						15	
			4	Feed-out Exit Sensor: +5V	P						14	
			5	Feed-out Exit Sensor: Input	I	Paper Detected	Paper Not Detected				13	
			6	Feed-out Exit Sensor: GND	G						12	
			7	Jam LED (D1/E1): +5V	P						11	
			8	Jam LED (D1/E1): Drive	O	Light Off	Light Off				10	
			9	Jam LED (D2/D3): +5V	P						9	
			10	Jam LED (D2/D3): Drive	O	Light Off	Light Off				8	
			11	Fusing Exit Knob D1/E1 (With Turn Sensor): +5V	P						7	
			12	Fusing Exit Knob D1/E1 (With Turn Sensor): Input	I	Not Detected	Detected				6	
			13	Fusing Exit Knob D1/E1 (With Turn Sensor): GND	G						5	
			14	Fusing Inner Cover Fan: Drive	O	OFF	ON				4	
			15	Fusing Inner Cover Fan: Lock	I	Lock	Rotate				3	
			16	Fusing Inner Cover Fan: +24V	P						2	
			17	NC	N						1	
		CN252	1	Fusing Release Motor: +24VS	P			D2254497	CN980	Fusing Release Motor	19	
			2	Fusing Release Motor: +24VS	P						18	
			3	Fusing Release Motor: A	O						17	
			4	Fusing Release Motor: XA	O						16	
			5	Fusing Release Motor: B	O						15	
			6	Fusing Release Motor: XB	O						14	
			7	Dummy Line	N				DS1	D		

Harness No.	Harness P/N	CN (From)		Signal Info				Relay Harness P/N	CN (To)									
		No.	Device	Pin No.	Signal Name	DIR	L		H	No.	Device							
30	D2234590	CN734	IOB Relay D2234980 CN734	1	Duplex Transport Sensor 3 :GND					CN722	Duplex Transport Sensor 3							
				2	Duplex Transport Sensor 3 :Input													
				3	Duplex Transport Sensor 3 : +5V													
31	D2234985	CN731	IOB Relay D2234980 CN731	1	GND					CN740	Jogger Fence HP Sensor							
				2														
				3	VCC													
32	D2235422	CN254	IOB	A1	Duplex Inverter Motor :ENC A	I	-	-	D2234983	CN769	Duplex Inverter Motor	1						
				A2	Duplex Inverter Motor :ENC B	I	-	-				2						
				A3	Duplex Inverter Motor :+5V	P	-	-				3						
				A4	Duplex Inverter Motor :CW/CCW	O	CW	CCW				4						
				A5	Duplex Inverter Motor :PWM	O	OFF	ON				5						
				A6	Duplex Inverter Motor :BRAKE	O	-	-				6						
				A7	Duplex Inverter Motor :GND	G	-	-				7						
				A8	Duplex Inverter Motor :+24VS	P	-	-				8						
				A9	NC	N	-	-				9						
				A10	NC	N	-	-				10						
				B1	Duplex Transport Motor :ENC A	I	-	-				11						
				B2	Duplex Transport Motor :ENC B	I	-	-				12						
				B3	Duplex Transport Motor :+5V	P	-	-				13						
				B4	Duplex Transport Motor :CW/CCW	O	CW	CCW				14						
				B5	Duplex Transport Motor :PWM	O	OFF	ON				15						
				B6	Duplex Transport Motor :BRAKE	O	-	-				16						
				B7	Duplex Transport Motor :GND	G	-	-				17						
				B8	Duplex Transport Motor :+24VS	P	-	-				18						
				B9	Jam LED (E2/E3) :Drive	O	Light Off	Light Off				19						
				B10	Jam LED (E2/E3) :+5V	P	-	-				20						
				-	-	-	NC					21						
				-	-	-	NC					22						
				-	-	-	NC					23						
				-	-	-	NC					24						
				33	D2234983	CN731	IOB Relay D2235422 CN769	1	Duplex Inverter Motor :ENC A						-	CN738	Duplex Inverter Motor	8
								2	Duplex Inverter Motor :ENC B									7
								3	Duplex Inverter Motor :+5V									6
								4	Duplex Inverter Motor :CW/CCW									5
								5	Duplex Inverter Motor :PWM									4
								6	Duplex Inverter Motor :BRAKE									3
								7	Duplex Inverter Motor :GND									2
								8	Duplex Inverter Motor :+24VS									1
9	NC								-	NC	-							
10	NC								-	NC	-							
11	Duplex Transport Motor :ENC A								-	CN772	Duplex Transport Motor	8						
12	Duplex Transport Motor :ENC B								-			7						
13	Duplex Transport Motor :+5V								-			6						
14	Duplex Transport Motor :CW/CCW								-			5						
15	Duplex Transport Motor :PWM								-	4								
16	Duplex Transport Motor :BRAKE								-	3								
17	Duplex Transport Motor :GND								-	2								
18	Duplex Transport Motor :+24VS								-	1								
19	Jam LED (E2/E3) :Drive								D2234984	CN966	Jam LED (E2/E3)	2						
20	Jam LED (E2/E3) :+5V								-			1						
21	NC								-			NC	-					
22	NC								-			NC	-					
23	NC								-	NC	-							
24	NC								-	NC	-							
34	D2234984	CN966	IOB Relay D2234983	1	Jam LED (E2/E3) :Drive				-	CN909	Jam LED (E2/E3)	2						
				2	Jam LED (E2/E3) :+5V				-			1						
36	D2254497	CN979	IOB Relay D2235418 CN979	1	NC				-		NC	-						
				2	Fusing Inner Cover Fan :+24V				D2234296	CN976	Fusing Inner Cover Fan	7						
				3	Fusing Inner Cover Fan :Lock				6									
				4	Fusing Inner Cover Fan :Drive				5									
				5	Fusing Exit Knob D1/E1 (With Turn Sensor) :GND			-	CN974			Fusing Exit Knob D1/E1 (With Turn Sensor)	3					
				6	Fusing Exit Knob D1/E1 (With Turn Sensor) :Input			-		2								
				7	Fusing Exit Knob D1/E1 (With Turn Sensor) : +5V			-		1								
				8	Jam LED (D2/D3) :Drive			D2234296		CN976	Jam LED (D2/D3) Jam LED (D1/E1)		4					
				9	Jam LED (D2/D3) :+5V			-	2									
				10	Jam LED (D1/E1) : Drive			-	1									
				11	Jam LED (D1/E1) :+5V			-	1									
				-	-	-	NC			D2234496	CN778	NC Feed-out Exit Sensor	4					
				12	Feed-out Exit Sensor :GND				-	3								
				13	Feed-out Exit Sensor :Input				-	2								
				14	Feed-out Exit Sensor :+5V				-	1								
				15	Feed-out Entrance Sensor :GND				D2234495	CN779	Feed-out Entrance Sensor	2						
		16	Feed-out Entrance Sensor :Input				-	3										
		17	Feed-out Entrance Sensor :+5V				-	1										
		1	NC				-	NC	-									
		CN980	IOB Relay D2235418 CN980	2	Web Motor :+5V				-	CN968	Web Motor	1						
				3	Web Motor :Drive					2								
				4	Web End Sensor :GND				D2234248	Web End Sensor	3							
				5	Web End Sensor :Input					2								
				6	Web End Sensor :+5V					1								
				7	Paper Exit UNI Set Detection				-	CN980	Paper Exit UNI Set Detection	8						
				9	Fusing Junction Gate Solenoid :+24VS				-	CN969	Fusing Junction Gate Solenoid	2						
				10	Fusing Junction Gate Solenoid :Drive					1								
				11	NC				-	-	-							
				12	NC				-	-	-							
				13	NC				-	-	-							
				14	NC				-	-	-							
				15	NC				-	-	-							
16	NC						-	-	-									
17	NC						-	-	-									
18	NC						-	-	-									
19	NC				-	-	-											
37	D2234248	CN734	IOB Relay D2254497 CN724	1	Web End Sensor :5V				-	CN729	Web End Sensor	3						
				2	Web End Sensor							2						
				3	Web End Sensor :GND							1						
38	D2234495	CN779	IOB Relay D2254497 CN779	1	Feed-out Entrance Sensor :GND				-	CN970	Feed-out Entrance Sensor	3						
				2	Feed-out Entrance Sensor :Input							2						
				3	Feed-out Entrance Sensor :+5V							1						
39	D2234496	CN778	IOB Relay D2254497 CN778	1	NC				-		NC	-						
				2	Feed-out Exit Sensor :GND				-	CN971	Feed-out Exit Sensor	3						
				3	Feed-out Exit Sensor :Input							2						
40	D2234296	CN976	IOB Relay D2254497 CN976	4	Feed-out Exit Sensor :+5V							1						
				1	Fusing Inner Cover Fan :+24V				-	CN975	Fusing Inner Cover Fan	3						
				2	Fusing Inner Cover Fan :Lock							2						
				3	Fusing Inner Cover Fan :Drive							1						
				4	Jam LED (D2/D3) : Drive				-	CN973	Jam LED (D2/D3)	2						
				5	Jam LED (D2/D3) :+5V				-			1						
6	Jam LED (D1/E1) : Drive				-	CN972	Jam LED (D1/E1)	2										
	Jam LED (D1/E1) :+5V							1										

RICOH MP9003SP/7503/6503 Pin Assignment Lists

Harne ss No.	Harness P/N	CN (From)			Signal Info.			Relay		CN (To)		
		No.	Device	Pin No.	Signal Name	DIR	L	H	Harness P/N	No.	Device	Pin No.
28	D2235418	CN253	IOB	A1	Duplex Reverse Solenoid: +24VS	P			D2234980	CN730	Duplex Reverse Solenoid	1
				A2	Duplex Reverse Solenoid: Drive	O	OFF	ON			Duplex Junction Gate Solenoid	2
				A3	Duplex Junction Gate Solenoid: +24VS	P					Duplex UNISetDetection	3
				A4	Duplex Junction Gate Solenoid: Drive	O	OFF	ON			Duplex Entrance Sensor	4
				A5	Duplex UNISetDetection: Input	I	Set	Not Set			Duplex Invert Sensor	5
				A6	Duplex UNISetDetection: GND	G					Duplex Transport Sensor 1	6
				A7	Duplex Entrance Sensor: +5V	P					Jogger Fence HP Sensor	7
				A8	Duplex Entrance Sensor: Input	I	Paper Not Detected	Paper Detected			Duplex Transport Sensor 2	8
				A9	Duplex Entrance Sensor: GND	G					Duplex Transport Sensor 3	9
				A10	Duplex Invert Sensor: +5V	P					Duplex Jogger Motor	10
				A11	Duplex Invert Sensor: Input	I	Paper Detected	Paper Not Detected			NC	11
				A12	Duplex Invert Sensor: GND	G					NC	12
				A13	Duplex Transport Sensor 1: +5V	P					NC	13
				A14	Duplex Transport Sensor 1: Input	I	Paper Detected	Paper Not Detected			NC	14
29	D2234980	CN730	IOB Relay D2235418 CN730	A15	Duplex Transport Sensor 1: GND	G			D2234987	CN979	Feed-out Entrance Sensor	15
				B1	Jogger Fence HP Sensor: +5V	P					Feed-out Exit Sensor	16
				B2	Jogger Fence HP Sensor: Input	I	Without Feeler	With Feeler			Jam LED (D1/E1): +5V	17
				B3	Jogger Fence HP Sensor: GND	G					Jam LED (D1/E1): Drive	18
				B4	Duplex Transport Sensor 2: +5V	P					Jam LED (D2/D3): +5V	19
				B5	Duplex Transport Sensor 2: Input	I	Paper Detected	Paper Not Detected			Jam LED (D2/D3): Drive	20
				B6	Duplex Transport Sensor 2: GND	G					Fusing Exit Knob D1/E1 (With Turn Sensor): +5V	21
				B7	Duplex Transport Sensor 3: +5V	P					Fusing Exit Knob D1/E1 (With Turn Sensor): Input	22
				B8	Duplex Transport Sensor 3: Input	I	Paper Detected	Paper Not Detected			Fusing Exit Knob D1/E1 (With Turn Sensor): GND	23
				B9	Duplex Transport Sensor 3: GND	G					Fusing Inner Cover Fan: Drive	24
				B10	Duplex Jogger Motor: +24VS	P					Fusing Inner Cover Fan: Lock	25
				B11	Duplex Jogger Motor: APhaseDrive	O	OFF	ON			Fusing Inner Cover Fan: +24V	26
				B12	Duplex Jogger Motor: -APhaseDrive	O	OFF	ON			NC	27
				B13	Duplex Jogger Motor: -BPhaseDrive	O	OFF	ON			NC	28
				B14	Duplex Jogger Motor: BPhaseDrive	O	OFF	ON			NC	29
30	D2234590	CN734	IOB Relay D2234980 CN734	B15	Duplex Jogger Motor: +24VS	P			D2234497	CN980	Fusing Release Motor	30
				-	NC						NC	31
				-	NC						NC	32
				-	NC						NC	33
				-	NC						NC	34
				-	NC						NC	35
				-	NC						NC	36
				-	NC						NC	37
				-	NC						NC	38
				-	NC						NC	39
				-	NC						NC	40
				-	NC						NC	41
				-	NC						NC	42
				-	NC						NC	43
				-	NC						NC	44
31	D2234985	CN731	IOB Relay D2234980 CN731	-	NC				D2234980	CN730	Duplex Reverse Solenoid	45
				-	NC						Duplex Junction Gate Solenoid	46
				-	NC						Duplex UNISetDetection	47
				-	NC						Duplex Entrance Sensor	48
				-	NC						Duplex Invert Sensor	49
				-	NC						Duplex Transport Sensor 1	50
				-	NC						Jogger Fence HP Sensor	51
				-	NC						Duplex Transport Sensor 2	52
				-	NC						Duplex Transport Sensor 3	53
				-	NC						Duplex Jogger Motor	54
				-	NC						NC	55
				-	NC						NC	56
				-	NC						NC	57
				-	NC						NC	58
				-	NC						NC	59

Harne ss No.	Harness P/N	CN (From)		Signal Info				Relay Harness P/N		CN (To)			
		No.	Device	Pin No.	Signal Name	DIR	L	H	No.	Device	Pin No.		
32	D2235422	CN254	IOB	A1	Duplex Inverter Motor: ENC A	I	-	-	D2234983	CN769	Duplex Inverter Motor	1	
				A2	Duplex Inverter Motor: ENC B	I	-	-			2		
				A3	Duplex Inverter Motor: +5V	P	-	-			3		
				A4	Duplex Inverter Motor: CW/CCW	O	CW	CCW			4		
				A5	Duplex Inverter Motor: PWM	O	OFF	ON			5		
				A6	Duplex Inverter Motor: BRAKE	O	-	-			6		
				A7	Duplex Inverter Motor: GND	G	-	-			7		
				A8	Duplex Inverter Motor: +24VS	P	-	-			8		
				A9	NC	N	-	-			9		
				A10	NC	N	-	-			10		
				B1	Duplex Transport Motor: ENC A	I	-	-			11		
				B2	Duplex Transport Motor: ENC B	I	-	-			12		
				B3	Duplex Transport Motor: +5V	P	-	-			13		
				B4	Duplex Transport Motor: CW/CCW	O	CW	CCW			14		
				B5	Duplex Transport Motor: PWM	O	OFF	ON			15		
				B6	Duplex Transport Motor: BRAKE	O	-	-			16		
				B7	Duplex Transport Motor: GND	G	-	-			17		
				B8	Duplex Transport Motor: +24VS	P	-	-			18		
				B9	Jam LED (E2/E3): Drive	O	Light Off	Light Off			19		
				B10	Jam LED (E2/E3): +5V	P	-	-			20		
				-	NC	-	-	-			21		
				-	NC	-	-	-			22		
				-	NC	-	-	-			23		
				-	NC	-	-	-			24		
33	D2234983	CN731	IOB Relay D2235422 CN769	1	Duplex Inverter Motor: ENC A	-	-	-	CN738	Duplex Inverter Motor	8		
				2	Duplex Inverter Motor: ENC B	-	-	-		7			
				3	Duplex Inverter Motor: +5V	-	-	-		6			
				4	Duplex Inverter Motor: CW/CCW	-	-	-		5			
				5	Duplex Inverter Motor: PWM	-	-	-		4			
				6	Duplex Inverter Motor: BRAKE	-	-	-		3			
				7	Duplex Inverter Motor: GND	-	-	-		2			
				8	Duplex Inverter Motor: +24VS	-	-	-		1			
				9	NC	-	-	-		-	NC	-	
				10	NC	-	-	-		-	NC	-	
				11	Duplex Transport Motor: ENC A	-	-	-		CN772	Duplex Transport Motor	8	
				12	Duplex Transport Motor: ENC B	-	-	-			7		
				13	Duplex Transport Motor: +5V	-	-	-		6			
				14	Duplex Transport Motor: CW/CCW	-	-	-		5			
				15	Duplex Transport Motor: PWM	-	-	-		4			
				16	Duplex Transport Motor: BRAKE	-	-	-		3			
				17	Duplex Transport Motor: GND	-	-	-		2			
				18	Duplex Transport Motor: +24VS	-	-	-		1			
				19	Jam LED (E2/E3): Drive	-	-	-		D2234984	Jam LED (E2/E3)	2	
				20	Jam LED (E2/E3): +5V	-	-	-			1		
				21	NC	-	-	-		-	NC	-	
				22	NC	-	-	-		-	NC	-	
				23	NC	-	-	-		-	NC	-	
				24	NC	-	-	-		-	NC	-	
34	D2234984	CN966	IOB Relay D2234983	1	Jam LED (E2/E3): Drive	-	-	-	CN909	Jam LED (E2/E3)	2		
				2	Jam LED (E2/E3): +5V	-	-	-		1			
35	D2234497	CN979	IOB Relay D2235418 CN979	1	NC	-	-	-	-	NC	-		
				2	Fusing Inner Cover Fan: +24V	-	-	-	D2234296	Fusing Inner Cover Fan	7		
				3	Fusing Inner Cover Fan: Lock	-	-	-		6			
				4	Fusing Inner Cover Fan: Drive	-	-	-	5				
				5	Fusing Exit Knob D1/E1 (With Turn Sensor): GND	-	-	-	CN974	Fusing Exit Knob D1/E1 (With Turn Sensor)	3		
				6	Fusing Exit Knob D1/E1 (With Turn Sensor): Input	-	-	-		2			
				7	Fusing Exit Knob D1/E1 (With Turn Sensor): +5V	-	-	-	1				
				8	Jam LED (D2/D3): Drive	-	-	-	D2234296	Jam LED (D2/D3)	4		
				9	Jam LED (D2/D3): +5V	-	-	-		3			
				10	Jam LED (D1/E1): Drive	-	-	-	D2234296	Jam LED (D1/E1)	1		
				11	Jam LED (D1/E1): +5V	-	-	-		2			
		-	NC	-	-	-	D2234496	NC	4				
		12	Feed-out Exit Sensor: GND	-	-	-		CN778	Feed-out Exit Sensor	3			
		13	Feed-out Exit Sensor: Input	-	-	-	2						
		14	Feed-out Exit Sensor: +5V	-	-	-	1						
		15	Feed-out Entrance Sensor: GND	-	-	-	D2234495	Feed-out Entrance Sensor	3				
		16	Feed-out Entrance Sensor: Input	-	-	-		2					
		17	Feed-out Entrance Sensor: +5V	-	-	-	1						
		CN980	IOB Relay D2235418 CN980	1	NC	-	-	-	-	NC	-		
				2	Web Motor: +5V	-	-	-	CN968	Web Motor	1		
				3	Web Motor: Drive	-	-	-		2			
				4	Web End Sensor: GND	-	-	-	D2234248	Web End Sensor	3		
				5	Web End Sensor: Input	-	-	-		2			
				6	Web End Sensor: +5V	-	-	-	1				
				7	Paper Exit UNI Set Detection	-	-	-	CN980	Paper Exit UNI Set Detection	8		
				9	Fusing Junction Gate Solenoid: +24VS	-	-	-		CN969	Fusing Junction Gate Solenoid	2	
				10	Fusing Junction Gate Solenoid: Drive	-	-	-	1				
				11	Fusing Pressure Release Sensor: GND	-	-	-	D2234255	Fusing Pressure Release Sensor	3		
				12	Fusing Pressure Release Sensor: Input	-	-	-		2			
				13	Fusing Pressure Release Sensor: +5V	-	-	-	CN751	Fusing Release Motor	1		
				14	Fusing Release Motor: XB	-	-	-		7			
		15	Fusing Release Motor: B	-	-	-	6						
		16	Fusing Release Motor: XA	-	-	-	5						
		17	Fusing Release Motor: A	-	-	-	4						
		-	NC	-	-	-	-	NC	3				
		CN980	Fusing Release Motor: +24VS	18	Fusing Release Motor: +24VS	-	-	-	Fusing Release Motor	2			
				19	Fusing Release Motor: +24VS	-	-	-		3			
		37	D2234248	CN734	IOB Relay D2234497 CN724	1	Web End Sensor: 5V	-	-	-	CN729	Web End Sensor	3
						2	Web End Sensor	-	-	-		2	
		3	Web End Sensor: GND	-	-	-	1						
		38	D2234495	CN779	IOB Relay D2234497 CN779	1	Feed-out Entrance Sensor: GND	-	-	-	CN970	Feed-out Entrance Sensor	3
						2	Feed-out Entrance Sensor: Input	-	-	-		2	
		3	Feed-out Entrance Sensor: +5V	-	-	-	1						
		39	D2234496	CN778	IOB Relay D2234487 CN778	1	NC	-	-	-	-	NC	-
2	Feed-out Exit Sensor: GND					-	-	-	CN971	Feed-out Exit Sensor	3		
3	Feed-out Exit Sensor: Input					-	-	-		2			
4	Feed-out Exit Sensor: +5V					-	-	-	1				
40	D2234296	CN976	IOB Relay D2234497 CN976	1	Fusing Inner Cover Fan: +24V	-	-	-	CN975	Fusing Inner Cover Fan	3		
				2	Fusing Inner Cover Fan: Lock	-	-	-		2			
				3	Fusing Inner Cover Fan: Drive	-	-	-		1			
				4	Jam LED (D2/D3): Drive	-	-	-		CN973	Jam LED (D2/D3)	2	
				5	Jam LED (D2/D3): +5V	-	-	-			1		
				6	Jam LED (D1/E1): Drive	-	-	-		CN972	Jam LED (D1/E1)	2	
				7	Jam LED (D1/E1): +5V	-	-	-			1		
41	D2234255	CN750	IOB Relay D2234497 CN750	3	Fusing Pressure Release Sensor: 5V	-	-	-	CN1	Fusing Pressure Release Sensor	1		
				2	Fusing Pressure Release Sensor	-	-	-		2			
				1	Fusing Pressure Release Sensor: GND	-	-	-		3			

RICOH MP9003SP/7503/6503 Pin Assignment Lists

Harne ss No.	Harness P/N	CN (From)		Signal Info		Relay	CN (To)	
		No.	Device	Pin No.	Signal Name		No.	Device
15	D2235416	CN271	IOB	A1	NC	-	-	-
				A2	NC		-	-
				A3	NC		-	-
				A4	NC		-	-
				A5	NC		-	-
				A6	NC		-	-
				A7	NC		-	-
				A8	NC		-	-
				A9	Key Counter: GND		CN685	-
				A10	Key Counter/SetDetection: Input		-	Key Counter
				A11	Key Counter: +24V		-	-
				A12	Key Counter: Drive		-	-
				A13	NC		-	NC
				A14	NC		-	NC
				A15	Internal Temperature Sensor: Temperature		D2235438	Internal Temperature Sensor
				A16	Internal Temperature Sensor: GND		-	-
				A17	Toner Bottle Fan: +24V		CN898	Toner Bottle Fan
				A18	Toner Bottle Fan: Lock		-	-
				A19	Toner Bottle Fan: Drive		-	-
				B1	Charge Cleaner Motor: Drive (CCW+)		D2232496	Charge Cleaner Motor
				B2	Charge Cleaner Motor: Drive (CW+)		-	-
				B3	ID Sensor: +5V		-	-
				B4	ID Sensor: LEDDrive		-	-
				B5	ID Sensor: Input		-	-
				B6	PCU Fan: +24V		-	-
				B7	PCU Fan: Lock		-	-
				B8	PCU Fan: Drive		-	-
				B9	QL (Quinching Lamp): +24V		-	-
				B10	QL (Quinching Lamp): Drive		-	-
				B11	PTL: +24V		-	-
				B12	PTL: Drive		-	-
				B13	Jam LED(C1): Drive		-	-
				B14	Jam LED(C1): +5V		-	-
				B15	NC		-	-
				B16	Potential Sensor: +24VS		-	-
				B17	Potential Sensor: Input		-	-
				B18	Potential Sensor: GND		-	-
				B19	Potential Sensor: GND		-	-
				-	NC		-	-
				1	NC		-	-
				2	Heat Exhaust Fan: +24V		CN676	Heat Exhaust Fan
				3	Heat Exhaust Fan: Lock		-	-
				4	Heat Exhaust Fan: GND		-	-
				5	Heat Exhaust Fan: Change Speed		-	-
				6	Main Exhaust Fan: +24V		CN679	Main Exhaust Fan
				7	Main Exhaust Fan: Lock		-	-
				8	Main Exhaust Fan: GND		-	-
				9	Main Exhaust Fan: Change Speed		-	-
				10	Main Intake Fan: +24V		CN678	Main Intake Fan
				11	Main Intake Fan: Lock		-	-
				12	Main Intake Fan: GND		-	-
				13	Main Intake Fan: Change Speed		-	-
				14	Drum Fan: +24V		CN681	Drum Fan
				15	Drum Fan: Lock		-	-
				16	Drum Fan: Drive		-	-
				17	Development Unit Fan1: +24V		D2231186	Development Unit Fan1
				18	Development Unit Fan1: Lock		-	-
				19	Development Unit Fan1: Drive		-	-
				20	Development Unit Fan2: +24V		-	-
				21	Development Unit Fan2: Lock		-	-
				22	Development Unit Fan2: Drive		-	-
				23	Grid PP Leak Detection: Input		CN601	Grid PP
				24	GridPP: PWM Output		-	-
				25	Charge PP Leak Detection: Input		-	-
				26	Charge PP: PWM Output		-	-
				27	HVP: GND		-	-
				28	HVP: +24VS		-	-
				29	Toner Exit Moto rRotate Detection Sensor: GND		CN682	Toner Exit Moto rRotate Detection Sensor
				30	Toner Exit Moto rRotate Detection Sensor: Input		-	-
				31	Toner Exit Moto rRotate Detection Sensor: +5V		-	-
				32	NC		-	-
16	D2231186	CN677	IOB Relay D2235416 CN677	1	SCI: G-MAC Data Output Signal	-	-	-
				2	SCI: G-MAC Data Input Signal		-	-
				3	SCI: G-MAC Clock Signal		-	-
				4	SCI: G-MAC Chip Select Signal		-	-
				5	APCSignal		-	-
				6	G-MAC Error Signal		-	-
				7	Door Detection Signal		-	-
				8	GND		-	-
				9	GND		-	-
				10	SV Power		-	-
				11	SV Power		-	-
				1	Main Power DC Push SW State Monitoring		CN870	PW BTN N
				2	GND		-	-
				1	GND		CN863	-
				2	Platen ADF Sensor Signal		-	-
				3	AKS: 5VE Power		-	-
				1	MSENS1 (Human Detection Sensor) Power (+3.3VE)		CN691	-
				2	Motion Sensor Signal		-	-
				3	GND		-	-
				4	Motion Sensor Signal		-	-
				5	Motion Sensor Signal		-	-
				1	Development Unit Fan1: 24V		CN676	Development Unit Fan1
				2	Development Unit Fan1: Lock		-	-
				3	Development Unit Fan1: Drive		-	-
				4	Development Unit Fan2: 24V		CN675	Development Unit Fan2
				5	Development Unit Fan2: Lock		-	-
				6	Development Unit Fan2: Drive		-	-

Harne ss No.	Harness P./N	CN (From)		Signal Info			Relay Harness P./N	CN (To)								
		No.	Device	Pin No.	Signal Name	DIR		L	H	No.	Device	Pin No.				
18	D2232496	CN683	IOB Relay D2235416 CN683	1	CCM:CCW				D2232489	CN684	CCM	15				
				2	CCM: CW							14				
				3	ID Sensor: +5V								13			
				4	ID Sensor: LEDDrive								12			
				5	ID Sensor: Input								11			
				6	PCU Fan: +24V								10			
				7	PCU Fan: Lock								9			
				8	PCU Fan: Drive								8			
				9	QL (Quinching Lamp): +24V								7			
				10	QL (Quinching Lamp): Drive								6			
				11	PTL: +24V								5			
				12	PTL: Drive								4			
				13	Jam LED(C1): Drive								3			
				14	Jam LED(C1): +5V								2			
				15	NC								1			
				16	Potential Sensor: +24VS									4		
				17	Potential Sensor: Input									3		
				18	Potential Sensor: GND									2		
				19	Potential Sensor: GND									1		
				19	D2232489	CN684	IOB Relay D2232496 CN684	20				NC				
1	CCM: CCW										2					
2	CCM: CW										3					
3	ID Sensor: +5V										4					
4	ID Sensor: LEDDrive										5					
5	ID Sensor: Input										6					
6	PCU Fan: +24V										7					
7	PCU Fan: Lock										8					
8	PCU Fan: Drive										9					
9	QL (Quinching Lamp): +24V										10					
10	QL (Quinching Lamp): Drive										11					
11	PTL: +24V										12					
12	PTL: Drive										13					
13	Jam LED(C1): Drive										14					
14	Jam LED(C1): +5V										15					
15	NC										16					
20	QL (Quinching Lamp): +24V										17					
21	QL (Quinching Lamp): Drive										18					
22	QL (Quinching Lamp): Drive										19					
20	D2232495	CN686	IOB Relay D2232489					1	QL (Quinching Lamp): +24V					-	NC	-
				2	QL (Quinching Lamp): Drive						2					
				3	Jam LED(C1): Drive						3					
				4	Jam LED(C1): +5V						4					
				5	NC						5					
				1	QL (Quinching Lamp): +24V						6					
				2	QL (Quinching Lamp): Drive						7					
				3	Jam LED(C1): Drive						8					
				4	Jam LED(C1): +5V						9					
				5	NC						10					
				1	QL (Quinching Lamp): +24V						11					
				2	QL (Quinching Lamp): Drive						12					
				3	Jam LED(C1): Drive						13					
				4	Jam LED(C1): +5V						14					
				5	NC						15					
				1	QL (Quinching Lamp): +24V						16					
				2	QL (Quinching Lamp): Drive						17					
				3	Jam LED(C1): Drive						18					
				4	Jam LED(C1): +5V						19					
				21	D2235473	CN671	IOB Relay D2232489	1	QL (Quinching Lamp): +24V					-	NC	-
2	QL (Quinching Lamp): Drive										2					
3	Jam LED(C1): Drive										3					
4	Jam LED(C1): +5V										4					
5	NC										5					
1	QL (Quinching Lamp): +24V										6					
2	QL (Quinching Lamp): Drive										7					
3	Jam LED(C1): Drive										8					
4	Jam LED(C1): +5V										9					
5	NC										10					
1	QL (Quinching Lamp): +24V										11					
2	QL (Quinching Lamp): Drive										12					
3	Jam LED(C1): Drive										13					
4	Jam LED(C1): +5V										14					
5	NC										15					
1	QL (Quinching Lamp): +24V										16					
2	QL (Quinching Lamp): Drive										17					
3	Jam LED(C1): Drive										18					
4	Jam LED(C1): +5V										19					
22	D2235414	CN141	BICU					1	+24V Power	P				-	CN714	7
				2	+24V Power	P					6					
				3	GND	G					5					
				4	GND	G					4					
				5	Polygon Motor On	O					3					
				6	Polygon Motor Ready	I					2					
				7	Polygon Moto Clock	O					1					
				8	Synchronized Signal	I										
				9	+5V Power	P										
				10	GND	G										
				1	Potential Sensor: +24VS											
				2	Potential Sensor: Input											
				3	Potential Sensor: GND											
				4	Potential Sensor: GND											
				1	SENS VDD											
				2	GND											
				3	SENS SIG1											
				4	SOT CLK											
				5	SPI DAT											
				6	CS1 N											
1	SENS VDD															
2	GND															
3	SENS SIG2															
4	SOT CLK															
5	SPI DAT															
6	CS2 N															
1	Internal Temperature Sensor: Temperature															
2	Internal Temperature Sensor: GND															
23	D2232448	CN685	IOB Relay D2232496 CN685	1	Potential Sensor: +24VS					-	CN1008	2				
				2	Potential Sensor: Input						1					
				3	Potential Sensor: GND						2					
				4	Potential Sensor: GND						3					
				1	SENS VDD						4					
				2	GND						5					
				3	SENS SIG1						6					
				4	SOT CLK						7					
				5	SPI DAT						8					
				6	CS1 N						9					
				1	SENS VDD						10					
				2	GND						11					
				3	SENS SIG2						12					
				4	SOT CLK						13					
				5	SPI DAT						14					
				6	CS2 N						15					
				1	Internal Temperature Sensor: Temperature						16					
				2	Internal Temperature Sensor: GND						17					
				24	D2235474	CN760	MSENS2	1	SENS VDD					-	CN762	4
								2	GND						5	
3	SENS SIG1										6					
4	SOT CLK										7					
5	SPI DAT										8					
6	CS1 N										9					
1	SENS VDD										10					
2	GND										11					
3	SENS SIG2										12					
4	SOT CLK										13					
CN761		5	SPI DAT								14					
		6	CS2 N								15					
		1	SENS VDD								16					
		2	GND								17					
		3	SENS SIG1								18					
		4	SOT CLK								19					
		5	SPI DAT								20					
		6	CS2 N								21					
		1	SENS VDD								22					
		2	GND								23					
25	D2235438	CN871	IOB Relay D2235416	1	Internal Temperature Sensor: Temperature					-	CN977	2				
				2	Internal Temperature Sensor: GND						1					
				1	GND	G										
				2	DATA3	I										
				3	DATA3_N	I										
				4	GND	G										
				5	DATA1	I										
				6	DATA1_N	I										
				7	GND	G										
				8	DATA2	I										
				9	DATA2_N	I										
				10	GND	G										
				11	DATA0	I										
				12	DATA0_N	I										
				1	NC											
				2	IN3											
				3	IN2											
				4	IN3											
				5	IN2											
				6	IN1											
7	HS+12V															
8	IN1															
9	HS+GND															
10	LV															
11	LW															
26	D2235403	CN401	LDB	1	GND	G				-	CN564	13				
				2	DATA3	I					12					
				3	DATA3_N	I					11					
				4	GND	G					10					
				5	DATA1	I					9					
				6	DATA1_N	I					8					
				7	GND	G					7					
				8	DATA2	I					6					
				9	DATA2_N	I					5					
				10	GND	G					4					
				11	DATA0	I					3					
				12	DATA0_N	I					2					
				1	NC						1					
				2	IN3											
				3	IN2											
				4	IN3											
				5	IN2											
				6	IN1											
				7	HS+12V											
				8	IN1											
9	HS+GND															
10	LV															
11	LW															
27	D2235412	CN715	Polygon Motor Control Board	1	IN3					-	CN716	11				
				2	IN2						10					
				3	IN3						9					
				4	IN2						8					
				5	IN1						7					
				6	HS+12V						6					
				7	IN1						5					
				8	HS+GND						4					
				9	LV						3					
				10	LW						2					
				11	NC						1					
				1	IN3											
				2	IN2											
				3	IN3											
				4	IN2											
				5	IN1											
				6	HS+12V											
				7	IN1											
				8	HS+GND											
				9	LV											
10	LW															
11	NC															

RICOH MP9003SP/7503/6503 Pin Assignment Lists

Harne ss No.	Harness P/N	CN (From)			Signal Info			Relay	Harne ss P/N	CN (To)					
		No.	Device	Pin No.	Signal Name	DIR	L			H	No.	Device	Pin No.		
1	D2235417	CN257	IOB	1	Registration Motor: ENC A	I	-	-	-	CN654	Registration Motor	8			
				2	Registration Motor: ENC B	I	-	-	7						
				3	Registration Motor: +5V	P	-	-	6						
				4	Registration Motor: CW/CCW	O	CW	CCW	5						
				5	Registration Motor: PWM	O	OFF	ON	4						
				6	Registration Motor: BRAKE	O	Release	Brake	3						
				7	Registration Motor: GND	G	-	-	2						
				8	Registration Motor: +24VS	P	-	-	1						
				9	Relay Motor: ENC A	I	-	-	CN655	Relay Motor	8				
				10	Relay Motor: ENC B	I	-	-			7				
				11	Relay Motor: +5V	P	-	-			6				
				12	Relay Motor: CW/CCW	O	CW	CCW			5				
				13	Relay Motor: PWM	O	OFF	ON			4				
				14	Relay Motor: BRAKE	O	Release	Brake			3				
				15	Relay Motor: GND	G	-	-			2				
				16	Relay Motor: +24VS	P	-	-			1				
		CN264		1	Controller Fan: +24V	P	-	-	CN933	Controller Fan	3				
				2	Controller Fan: Lock	I	Lock	Rotate			2				
				3	Controller Fan: Drive	O	Stop	Drive			1				
				4	GND	G	-	-	CN116	BICU	8				
				5	NC	N	-	-			7				
				6	NC	N	-	-			6				
				7	Power Set Signal	I	-	-			5				
				8	IOB Start Signal	O	-	-			4				
				9	Interrupt: VODKA3	O	-	-			3				
		10		Interrupt: VODKA2	O	-	-	2							
		11		Interrupt: VODKA1	O	-	-	1							
		CN274		-	NC	-	-	-	-	CN905	Key Card	9			
				1	Key Card: +5V	P	-	-				13			
				2	Key Card: Copyable	I	Copyable	Uncopyable				12			
				3	Key Card: b0 (Size)	O	(Combination)	(Combination)				11			
				4	Key Card: b1 (Size)	O	(Combination)	(Combination)				10			
				5	Key Card: b2 (Size)	O	(Combination)	(Combination)				9			
				6	Key Card: b3 (Size)	O	(Combination)	(Combination)				8			
				7	Key Card: b4 (Mode)	O	(Combination)	(Combination)				7			
				8	Key Card: b5 (Mode)	O	(Combination)	(Combination)				6			
				9	Key Card: b6 (Duplex)	O	(Combination)	(Combination)				5			
				10	Key Card: b7 (Motor)	O	(Combination)	(Combination)				4			
				11	Key Card: GND	G	-	-				3			
				12	Key Card: Count	O	OFF	ON				2			
		CN276		13	Key Card: +24V	P	-	-	D2235486	CN849	CAPCNT	14			
				1	CAPCNT Start	I	Start	Sleep				11			
				2	GND	G	-	-				10			
				3	GND	G	-	-				9			
				4	Output Switch	O	-	-				8			
				5	Door Open Detection	O	-	-				7			
				6	Fusing Dual Monitoring	O	-	-				6			
				7	Discharge and Charge forced Stop	O	-	-				5			
				8	Serial RXD	I	-	-				4			
				9	Serial TXD	O	-	-				3			
				10	Unit Set Detection	I	-	-				2			
		CN277		11	SetDetection(for MP 6503 SP)	I	-	-	D2232764	CN743	Registration Sensor	1			
				1	Registration Sensor: GND	G	-	-				19			
				2	Registration Sensor: Input	I	Paper Detected	Paper Not Detected				18			
				3	Registration Sensor: +5V	P	-	-				17			
				4	Bypass Paper End Sensor: GND	G	-	-				16			
				5	Bypass Paper End Sensor: Input	I	Paper Detected	Paper Not Detected				15			
				6	Bypass Paper End Sensor: +5V	P	-	-				14			
				7	Relay Sensor: GND	G	-	-				13			
				8	Relay Sensor: Input	I	Paper Detected	Paper Not Detected				12			
				9	Relay Sensor: +5V	P	-	-				11			
				10	Bypass Feed Clutch: +24V	P	-	-				10			
				11	Bypass Feed Clutch: Drive	O	OFF	ON				9			
				12	Bypass Pick-up Solenoid: +24V	P	-	-				8			
				13	Bypass Pick-up Solenoid: Drive	O	OFF	ON				7			
				14	Jam LED (B1): Drive	O	Light Off	Light Off				6			
				15	Jam LED (B1): +5V	P	-	-				5			
				16	Jam LED (B2): Drive	O	Light Off	Light Off				4			
				17	Jam LED (B2): +5V	P	-	-				3			
				18	Jam LED (C2): Drive	O	Light Off	Light Off				2			
				19	Jam LED (C2): +5V	P	-	-				1			
		CN278		20	Guide Plate Sensor: +24V	P	-	-	-	CN749	Guide Plate Sensor	2			
				21	Guide Plate Sensor: Drive	O	OFF	ON				1			
				22	Duplex Fan: +24V	P	-	-				D2231187	CN663	Duplex Fan	3
				23	Duplex Fan: Lock	I	Lock	Rotate	2						
				24	Duplex Fan: Drive	O	OFF	ON	1						
				25	Guide Plate Open Sensor: GND	G	-	-	D2232762	CN745	Guide Plate Open Sensor	3			
				26	Guide Plate Open Sensor: Input	I	Closed	Open				2			
				27	Guide Plate Open Sensor: +5V	P	-	-				1			
				28	Exit full sensor: GND	G	-	-	D2234499	CN720	Option: Exit full sensor	3			
				29	Exit full sensor: Input	I	Not Full	Full				2			
				30	Exit full sensor: +5V	P	-	-				1			
				31	Bypass Paper Size Detection Board: GND	G	-	-	-	CN742	Bypass Paper Size Detection Board	3			
				32	Bypass Paper Size Detection Board: Input	I	-	-				2			
		33		Bypass Paper Size Detection Board: +3.3V	P	-	-	1							
		34		Bypass paper length sensor: GND	G	-	-	-	CN744	Bypass paper length sensor (EXP only)	4				
		35		Bypass paper length sensor: Input	I	Paper Not Detected	Paper Detected				3				
		36		Bypass paper length sensor: +5V	P	-	-				2				
		37		NC	N	-	-	-	-	NC	1				
		38		NC	N	-	-	-	-	NC	-				
		CN278		1	Toner Motor Lock Sensor: GND	G	-	-	D2232762	CN680	Toner Motor Lock Sensor	3			
				2	Toner Motor Lock Sensor: Input	I	Not Detect	Detected				2			
				3	Toner Motor Lock Sensor: +5V	P	-	-				1			
				4	NC	N	-	-	-	-	NC	-			
				5	NC	N	-	-	-	-	NC	-			
				6	NC	N	-	-	-	-	NC	-			
				7	Development PPRReverse Bias Relay	O	OFF	ON	-	CN602	Development PP	5			
				8	Development PP: Error Detection	I	Normal	Error				4			
				9	Development PP: PWM Output	O	-	-				3			
				10	Development PP: +24VS	P	-	-	-	-	-	-	-		
11	Development PP: GND			G	-	-	D2233812	CN694						Transfer/Separation Solenoid	1
12	Transfer/Separation Solenoid (Attraction coil): Drive			O	OFF	ON									11
13	Transfer/Separation Solenoid: +24VS			P	-	-			10						
14	Transfer/Separation Solenoid (Retaining Coil): Drive	O	OFF	ON	-	-	-	-	-						
15	Transfer PP: GND	G	-	-						-	-	-	-	-	
16	Transfer PP: +24VS	P	-	-											-
17	Transfer PP: Voltage FB Input	I	-	-	-	-	-	-	-						
18	Transfer PP: Current FB Input	I	-	-						-	-	-	-	-	
19	Transfer PP: PWM Output	O	-	-											-
20	C1 Open Sensor: GND	G	-	-	-	-	-	-	-						
21	C1 Open Sensor: Input	I	Lever Open	Lever Close						-	-	-	-	-	
22	C1 Open Sensor: +5V	P	-	-											-

RICOH MP9003SP/7503/6503 Pin Assignment Lists

Harness No	Harness P/N	CN (From)		Signal Info		DIR	L	H	Relay Harness P/N	CN (To)					
		No.	Device	Pin No.	Signal Name					No.	Device	Pin No.			
3	D2233593	CN830	IOB Relay D2235417 CN830	1	Toner Bottle Set Sensor: GND				-	CN753	Toner Bottle Set Sensor	2			
				2	Toner Bottle Set Sensor						1				
				3	Toner Bottle Full Sensor: GND										
				4	Toner Bottle Full Sensor					CN754	Toner Bottle Full Sensor	2			
				5	Toner Exit Motor: PEAK							1			
				6	Toner Exit Motor: MAKER					-	CN755	Toner Exit Motor	10		
				7	Toner Exit Motor: FG							9			
				8	Toner Exit Motor: CW/CCW							8			
				9	Toner Exit Motor: PWM							7			
				10	Toner Exit Motor: BRAKE							6			
				11	Toner Exit Motor: GND							5			
				12	Toner Exit Motor: GND							4			
				13	Toner Exit Motor: +24VS							3			
				14	Toner Exit Motor: +24VS							2			
7	D2234499	CN720	IOB Relay D2235417 CN720	1	Exit full sensor: GND					CN726	Exit full sensor	3			
				2	Exit full sensor: Input						2				
				3	Exit full sensor: +5V						1				
4	D2233812	CN692	IOB Relay D2235417 CN694	1	Transfer/Separation Solenoid 1					D2233976	CN695	Transfer/Separation Solenoid	8		
				2	Transfer/Separation Solenoid VAA								7		
				3	Transfer/Separation Solenoid 2								6		
				4	PGND								5		
				5	+24V-IN1								4		
				6	FB: V: T								3		
				7	FB: I: T								2		
				8	PWM: T								1		
				9	C1 Open Sensor: GND							-	CN693	C1 Open Sensor	3
				10	C1 Open Sensor: Input								2		
				11	C1 Open Sensor: 5V								1		
5	D2233976	CN695	IOB Relay D2233812 CN695	1	T. Solenoid 1					-	CN697	Transfer/Separation Solenoid	3		
				2	Transfer/Separation Solenoid VAA						2				
				3	T. Solenoid 2						1				
				4	PGND										
				5	+24V-IN1					-	CN603	Transfer P.P	5		
				6	FB: V: T						4				
				7	FB: I: T						3				
				8	PWM: T						2				
				9	C1 Open Sensor: GND						1				
				10	C1 Open Sensor: Input										
				11	C1 Open Sensor: 5V										
6	D2231187	CN663	IOB Relay D2235417 CN663	1	Duplex Fan: +24V					-	CN664	Duplex Fan	3		
				2	Duplex Fan: Lock						2				
				3	Duplex Fan: Drive						1				
9	D2232764	CN740	IOB Relay D2235417 CN740	1	Registration Sensor: GND					D2232763	CN748	Registration Sensor	3		
				2	Registration Sensor: Input						2				
				3	Registration Sensor: +5V						1				
				4	Bypass Paper End Sensor: GND					-	CN744	Bypass Paper End Sensor	3		
				5	Bypass Paper End Sensor: Input						2				
				6	Bypass Paper End Sensor: +5V						1				
				7	Relay Sensor: GND					-	CN747	Relay Sensor	3		
				8	Relay Sensor: Input						2				
				9	Relay Sensor: +5V						1				
				10	Bypass Feed Clutch: +24V					-	CN745	Bypass Feed Clutch	2		
				11	Bypass Feed Clutch: Drive						1				
				12	Bypass Pick-up Solenoid: +24V					-	CN746	Bypass Pick-up Solenoid	2		
				13	Bypass Pick-up Solenoid: Drive						1				
				14	Jam LED (B1): Drive					D2235475	CN873	Jam LED (B1)	6		
				15	Jam LED (B1): +5V							5			
				16	Jam LED (B2): Drive							Jam LED (B2)	4		
				17	Jam LED (B2): +5V							3			
				18	Jam LED (C2): Drive							Jam LED (C2)	2		
				19	Jam LED (C2): +5V						1				
		CN741	IOB Relay D2235417 CN741	1	NC					-	NC	-			
				2	NC					-	NC	-			
				3	Toner Bottle Motor: Drive					-	CN672	Toner Bottle Motor	2		
				4	Toner Bottle Motor: +24VS					-		1			
				5	NC					-	NC	-			
				6	Toner End Sensor: +5V					-	CN743	Toner End Sensor	3		
				7	Toner End Sensor: Input						2				
				8	Toner End Sensor: GND						1				
				9	NC					-	NC	-			
				10	NC					-	NC	-			
				11	TD Sensor: VCNT Output					-	CN721	TD Sensor	4		
				12	TD Sensor: +24V						3				
				13	TD Sensor: Input						2				
				14	TD Sensor: GND						1				
10	D2235475	CN873	IOB Relay D2232764 CN873	1	Jam LED (B1): Drive				-	CN701	Jam LED (B1)	2			
				2	Jam LED (B1): +5V						1				
				3	Jam LED (B2): Drive					-	CN702	Jam LED (B2)	2		
				4	Jam LED (B2): +5V						1				
				5	Jam LED (C2): Drive					-	CN703	Jam LED (C2)	2		
				6	Jam LED (C2): +5V						1				
11	D2232763	CN1	IOB Relay D2232764 CN748	1	GND					-	CN2	Registration Sensor	3		
				2							2				
13	D2232762	CN1	IOB Relay D2235417 CN745	1	VCC						CN2	Guide Plate Open Sensor	3		
				2	GND						2				
13	D2232762	CN1	IOB Relay D2235417 CN680	1	VCC						CN2	Toner Motor Lock Sensor	3		
				2	GND						2				
84	D2235486	CN511	CAPCNT	3	VCC										
				1	Capacitor Voltage Monitor	I						CN441	CAPCNT	15	
				2	Discharge at Disposed	O	Self-discharge						14		
				3	Discharging Circuit Error Detection	I	Discharging Circuit Error						13		
				4	Boosting Circuit Error Detection	I	Boosting Circuit Error						12		
				5	CAPV Cooling FAN Drive	O		Drive					11		
				6	Charging Start	O		ChargeON					10		
				7	Discharge Start	O		DischargeON					9		
				8	Output Switching	O	500W	800W					8		
				9	Door Open Detection	O		Door Open					7		
				10	All Cells Fully charged	I	Fully charged						6		
				11	Single Cell Fully charged	I	Fully charged						5		
		12		GND	G							4			
		13		SetDetection for MP 6503 SP	I	for MP 6503 SP	for MP 7503 SP					3			
		14		Unit Set Detection	I	Set						2			
		15		CAP Cooling FAN Lock Detection	I	Lock						1			
		16		GND	G										
		17		XPONENG D	O	5VX Shutdown									
		18		+5VX	P										
		CN512		1	SetDetection for MP 6503 SP	O	for MP 6503 SP	for MP 7503 SP					CN442		3
				2	Unit Set Detection	O	Set							2	
				3	Serial RXD	I								1	
				4	Serial TXD	O								8	
				5	Discharge and Charge Forced Stop	I		Forced OFF						7	
				6	Fusing Dual Monitoring	I		Fusing Error						6	
				7	Door Open Detection	I		Door Open						5	
				8	Output Switch	I	500W	800W						4	
				9	GND	G								3	
				10	GND	G								2	
			11	CAPCNT Activation Notice	O	Started							1		
CN513	1		+5VX	P							CN946	RYBRelay	3		
	2	PONENG1 N	I	Off Mode							2				
	3	GND	G								1				
	4	5V									2				
62	D2235430	CN870	RYBRelay D2235417 CN870	1	NC					-	CN871		2		
				2									1		
				3	NC										
				4	5VS								CN871	Front Door SW	1

RICOH MP9003SP/7503/6503 Pin Assignment Lists

Harne ss No.	Harness P/N	CN (From)			Signal Info			Relay			CN (To)					
		No.	Device	Pin No.	Signal Name	DIR	L	H	Harne ss P/N	No.	Device	Pin No.				
2	D2255436	CN280	IOB	-	NC				-	CN306	RYB	11				
				1	Drum Motor :Trigger	O	OFF	ON	10							
				2	Drum Motor :CW / CCW	O	CCW	CW	9							
				3	Drum Motor :LockDetection	I	Lock	Rotate	8							
				4	Drum Motor :Clock	O	-	-	7							
				5	Development Motor :Trigger	O	OFF	ON	6							
				6	Toner Supply Clutch :Drive	O	OFF	ON	5							
				7	Development Motor :LockDetection	I	Rotate	Lock	4							
				8	Development Motor :Clock	O	-	-	3							
				9	GND	G	-	-	2							
				10	Inter Lock Signal	I	Close	Open	1							
				11	PSU Fan1 :+24V	P			-			CN931	PSU Fan1	3		
				12	PSU Fan1 :Lock	I	Lock	Rotate	2							
				13	PSU Fan1 :Drive	O	OFF	ON	1							
				14	PSU Fan2 :+24V	P			-			CN932	PSU Fan2	3		
				15	PSU Fan2 :Lock	I	Lock	Rotate	2							
				16	PSU Fan2 :Drive	O	OFF	ON	1							
				17	Toner Bottle Set Sensor :GND	G			D2233593 CN830	CN830	Toner Bottle Set Sensor	14				
				18	Toner Bottle Set Sensor	I	Set	Not Set				13				
				19	Toner Bottle Full Sensor :GND	G						12				
				20	Toner Bottle Full Sensor	I	Not Full	Full				11				
				21	Toner Exit Motor :PEAKI	I	-	-				10				
				22	Toner Exit Motor :MAKER	I	-	-				9				
				23	Toner Exit Motor :FG	I	-	-				8				
				24	Toner Exit Motor :CW/CCW	O	CW	CCW				7				
				25	Toner Exit Motor :PWM	O	OFF	ON				6				
				26	Toner Exit Motor :BRAKE	O	Release	Brake				5				
				27	Toner Exit Motor :GND	G						4				
				28	Toner Exit Motor :GND	G						3				
				29	Toner Exit Motor :+24VS	P						2				
				30	Toner Exit Motor :+24VS	P						1				
				31	NC	N						-	-	NC	-	
				32	NC	N						-	-	NC	-	
				CN281		1	+24VS	G						-	-	CN994
						2	GND	P			-	-	10			
						3	Zero cross :Signal1	I	-	-			9			
						4	Fusing relay :Signal1	O	OFF	ON			8			
						5	Anti-Condensation Relay :Trigger Signal	O	OFF	ON			7			
						6	AC Input :Voltage Signal	I	-	-			6			
						7	Fusing Lamp3 :Trigger Signal	O	OFF	ON			5			
						8	Fusing Lamp2 :Trigger Signal	O	OFF	ON			4			
						9	Fusing Lamp1 :Trigger Signal	O	OFF	ON			3			
						10	Fusing relay :Signal2	O	OFF	ON			2			
						11	Zero cross :Signal2	I	-	-			1			
						12	NC	N			-	-	NC	-		
						13	NC	P			-	-	NC	-		
						14	NC	I			-	-	NC	-		
						15	NC	O	OFF	ON			NC	-		
						16	AC Drive Board Fan+24V	P			-	-	CN934	AC Drive Board Fan	3	
						17	AC Drive Board Fan :Lock	I	Lock	Rotate					2	
		18	AC Drive Board Fan :Drive			O	OFF	ON			1					
		-	NC													
		CN281				19	GND	G			-	-	CN987	AC Drive Board	2	
				20	+24V	P			-	-	1					
				21	For Insulation/Pressure resistance Test: External Power	O			-	-	2					
				22	For Insulation/Pressure resistance Test: External Power	P			-	-	1					
		CN256		1	For Insulation/Pressure resistance Test: External Power	P			-	-	CN958	Finisher	8			
				2	FIN :RXD	I							7			
				3	For Insulation/Pressure resistance Test: External Power	G							6			
				4	FIN :TXD	O							5			
				5	FIN :+5V	P							4			
				6	FIN :+5V	P							3			
				7	FIN :GND	G							2			
				8	FIN :GND	G							1			
		CN301	RYB	1	FIN :GND	G			-	-	CN659	Finisher	9			
				2	FIN :GND	G							8			
				3	FIN :GND	G							7			
				4	FIN :GND	G							6			
				5	FIN :+24V	P							5			
				6	FIN :+24V	P							4			
				7	FIN :+24V	P							3			
				8	FIN :+24V	P							2			
		CN266	IOB	-	NC				-	-	CN656	LCT	8			
				1	NC	N							7			
				2	LCT :RXD	I	BRAKE	Release					6			
				3	NC	N							5			
				4	LCT :TXD	O	-	-					4			
				5	LCT :+5V	P							3			
				6	LCT :+5V	P							2			
				7	LCT :GND	G							1			
		CN304	RYB	8	LCT :GND	G			-	-	CN657	LCT	9			
				1	LCT :GND	G							8			
				2	LCT :GND	G							7			
				3	LCT :GND	G							6			
				4	LCT :GND	G							5			
				5	LCT :+24V	P							4			
				6	LCT :+24V	P							3			
				7	LCT :+24V	P							2			
		CN302		8	LCT :+24V	P			D2235430 CN870	CN870	Front Door SW	4				
				1	NC	N.C.						3				
				2	+5V(Front Door Open)	P						2				
				3	NC	N.C.						1				
				4	NC	N.C.										
				4	+5VS	P										

Harne ss No.	Harness P/N	CN (From)		Signal Info			Relay Harness P/N	CN (To)								
		No.	Device	Pin No.	Signal Name	DIR		L	H	No.	Device	Pin No.				
3	D2233593	CN830	D225436 CN830	1	Toner Bottle Set Sensor :GND				-	CN753	Toner Bottle Set Sensor	2				
				2	Toner Bottle Set Sensor							2				
				3	Toner Bottle Full Sensor :GND					-	CN754	Toner Bottle Full Sensor	1			
				4	Toner Bottle Full Sensor							10				
				5	Toner Exit Motor :PEAKI							9				
				6	Toner Exit Motor :MAKER							8				
				7	Toner Exit Motor :FG							7				
				8	Toner Exit Motor :CW/CCW							6				
				9	Toner Exit Motor :PWM							5				
				10	Toner Exit Motor :BRAKE							4				
				11	Toner Exit Motor :GND							3				
				12	Toner Exit Motor :GND							2				
				13	Toner Exit Motor :+24VS							1				
				14	Toner Exit Motor :+24VS											
7	D2234499	CN720	IOB Relay D225436 CN720	1	Exit full sensor :GND				-	CN726	Exit full sensor	3				
				2	Exit full sensor :Input							2				
				3	Exit full sensor :+5V							1				
4	D2233812	CN692	D225436 CN694	1	Transfer/Separation Solenoid :1				D2233976 CN695	CN695	Transfer/Separation Solenoid	8				
				2	Transfer/Separation Solenoid :VAA									7		
				3	Transfer/Separation Solenoid :2									6		
				4	PGND									5		
				5	+24V-INT									4		
				6	FB :V :T									3		
				7	FB :I :T									2		
				8	PWM :T									1		
				9	C1 Open Sensor :GND								-	CN693	C1 Open Sensor	3
				10	C1 Open Sensor :Input										2	
				11	C1 Open Sensor :5V										1	
5	D2233976	CN695	D2233812 CN695	1	T :Solenoid :1				-	CN697	Transfer/Separation Solenoid	3				
				2	Transfer/Separation Solenoid :VAA							2				
				3	T :Solenoid :2							1				
				4	PGND					-	CN603	Transfer P.P	5			
				5	24V-INT							4				
				6	FB :V :T							3				
				7	FB :I :T							2				
				8	PWM :T							1				
6	D2231187	CN663	D225436 CN663	1	Duplex Fan :+24V				-	CN664	Duplex Fan	3				
				2	Duplex Fan :Lock							2				
				3	Duplex Fan :Drive							1				
9	D2232764	CN740	IOB Relay D225436 CN743	1	Registration Sensor :GND				D2232763	CN748	Registration Sensor	3				
				2	Registration Sensor :Input								2			
				3	Registration Sensor :+5V								1			
				4	Bypass Paper End Sensor :GND				-	CN744	Bypass Paper End Sensor	3				
				5	Bypass Paper End Sensor :Input							2				
				6	Bypass Paper End Sensor :+5V							1				
				7	Relay Sensor :GND				-	CN747	Relay Sensor	3				
				8	Relay Sensor :Input							2				
				9	Relay Sensor :+5V							1				
				10	Bypass Feed Clutch :+24V				-	CN745	Bypass Feed Clutch	2				
				11	Bypass Feed Clutch :Drive							1				
				12	Bypass Pick-up Solenoid :+24V				-	CN746	Bypass Pick-up Solenoid	2				
				13	Bypass Pick-up Solenoid :Drive							1				
				14	Jam LED (B1) :Drive				D2235475 CN873	CN873	Jam LED (B1)	6				
				15	Jam LED (B1) :+5V								5			
				16	Jam LED (B2) :Drive								4			
				17	Jam LED (B2) :+5V								3			
				18	Jam LED (C2) :Drive								2			
19	Jam LED (C2) :+5V					1										
CN741	D225436 CN741	1	NC				-	-	NC	-						
		2	NC				-	-	NC	-						
		3	Toner Bottle Motor :Drive				-	CN672	Toner Bottle Motor	2						
		4	Toner Bottle Motor :+24VS							1						
		5	NC				-	-	NC	-						
		6	Toner End Sensor :+5V				-	CN743	Toner End Sensor	3						
		7	Toner End Sensor :Input							2						
		8	Toner End Sensor :GND							1						
		9	NC				-	-	NC	-						
		10	NC				-	-	NC	-						
		11	TD Sensor :VCNT Output							4						
		12	TD Sensor :+24V				-	CN721	TD Sensor	3						
		13	TD Sensor :Input							2						
		14	TD Sensor :GND							1						
10	D2235475	CN873	D2232764 CN873	1	Jam LED (B1) :Drive				-	CN701	Jam LED (B1)	2				
				2	Jam LED (B1) :+5V							1				
				3	Jam LED (B2) :Drive				-	CN702	Jam LED (B2)	2				
				4	Jam LED (B2) :+5V							1				
				5	Jam LED (C2) :Drive				-	CN703	Jam LED (C2)	2				
				6	Jam LED (C2) :+5V							1				
11	D2232763	CN1	D2232764 CN748	1	GND				-	CN2	Registration Sensor	3				
				2								2				
				3	VCC							1				
13	D2232762	CN1	D225436 CN745	1	GND				-	CN2	Guide Plate Open Sensor	2				
				2								1				
				3	VCC							3				
13	D2232762	CN1	D225436 CN680	1	GND				-	CN2	Toner Motor Lock Sensor	2				
				2								1				
				3	VCC							2				
62	D2235430	CN870	RYBRelay D225436 CN870	1	SV				-	CN871		2				
				2	NC				-	-		-				
				3	NC				-	-		-				
				4	5VS				-	CN871	Front Door SW	1				

RICOH MP9003SP/7503/6503 Pin Assignment Lists

Harness No.	Harness P/N	CN (From)		Signal Info			Relay Harness P/N		CN (To)						
		No.	Device	Pin No.	Signal Name	DIR	L	H	No.	Device	Pin No.				
59	D2235505	CN308	RYB	1	ADF_GND				D2235506	CN881	LCT	8			
				2	ADF_GND							7			
				3	ADF_GND							6			
				4	ADF_GND							5			
				5	ADF +24V							4			
				6	ADF +24V							3			
				7	ADF +24V							2			
				8	ADF +24V							1			
				9	NC							-			
				10	NC							-			
		CN305		1	Development Motor: +24VS				-	CN650	Development Motor	1			
				2	Development Motor: GND							2			
				3	Development Motor: +5V							3			
				4	Development Motor: GND							4			
				5	Development Motor: Trigger							5			
				6	Tonner Supply CL Drive							6			
				7	NC							7			
				8	Development Motor: LockDetection							8			
				9	Development Motor: Clock							9			
		CN307		1	Drum Motor: +24VS				-	CN651	Drum Motor	1			
				2	Drum Motor: GND							2			
				3	Drum Motor: +5V							3			
				4	Drum Motor: GND							4			
				5	Drum Motor: Trigger							5			
				6	Drum Motor: CW/CCW							6			
				7	Drum Motor: LockDetection							7			
				8	Drum Motor: Clock							8			
				9	NC							9			
		CN307		9	Fusing Exit Motor: +24VS				-	D2235503	CN652	Fusing Exit Motor	7		
				10	Fusing Exit Motor: GND								6		
				11	Fusing Exit Motor: +5V								5		
				12	Fusing Exit Motor: GND								4		
				13	Fusing Exit Motor: Trigger								3		
				14	Fusing Exit Motor: LockDetection								2		
				15	Fusing Exit Motor: Clock								1		
		CN309		1	IOB: +5V				-	CN250	IOB	1			
				2	IOB: +24V							2			
				3	IOB: +24V							3			
				4	IOB: GND							4			
				5	IOB: +24VS							5			
				6	IOB: GND							6			
				7	IOB: GND							7			
				8	IOB: GND							8			
				9	IOB: GND							9			
				10	IOB: +24VS							10			
		CN310		1	BICU: +5V				-	CN129	BICU	1			
				2	BICU: GND							2			
		CN311		3	BICU: GND				-	CN128	BICU	3			
				4	BICU: +24V							4			
				1	BICU: +24VS				-			1			
				2	BICU: GND							2			
				3	BICU: +5VX							3			
				4	BICU: GND							4			
				5	BICU: GND							5			
		CN312		6	BICU: +5VX				-	CN130	BICU	6			
				-	NC							5			
				-	NC							4			
				-	NC							3			
60	D2235501	CN300		1	GND				-	CN911	PSU	2			
				2	NC								1		
				3	PONENG1_N								8		
				4	+5V								7		
				5	+5V								6		
				6	+5VX								5		
				7	GND								4		
				8	GND								3		
				9	GND								2		
				10	GND								1		
				11	NC								6		
				12	NC								5		
61	D2235506	CN880	ADFRelay D6355630 CN901	1	ADF PowerON Signal				-	CN105	BICU	8			
				2	GND								7		
				3	5V Power								6		
				4	ADF_TXD Signal Reading Gate Signal								5		
				5	ADF_UART1_TX (Main→ADF)								4		
				6	ADF Original SetDetection Signal								3		
				7	ADF_UART1_Receive(ADF→Main)								2		
				8	ADF+5VE Power								1		
				9	ADF+24V Power								8		
				10	ADF+24V Power								7		
				11	ADF+24V Power								6		
				12	ADF+24V Power								5		
101	D2235503	CN652	RYBRelay D2235505 CN652	13	ADF_GND				-	CN881	RYBRelay D2235505 CN881	4			
				14	ADF_GND								3		
				15	ADF_GND								2		
				16	ADF_GND								1		
				1	Fusing Exit Motor: +24VS							-	CN653	Fusing Exit Motor	1
				2	Fusing Exit Motor: GND										2
				3	Fusing Exit Motor: 5V										3
				4	Fusing Exit Motor: GND										4
				5	Fusing Exit Motor: Trigger										5
				6	NC										6
				7	NC										7
				8	Fusing Exit Motor: LockDetection								8		
9	Fusing Exit Motor: Clock					9									

RICOH MP9003SP/7503/6503 Pin Assignment Lists

Harne ss No.	Harness P/N	CN (From)			Signal Info.			Relay			CN (To)			
		No.	Device	Pin No.	Signal Name	DIR	L	H	Harness P/N	No.	Device	Pin No.		
42	D2235480	CN268	IOB	1	Tray 2 Paper Size Detection Switch: GND	G			D2236619	CN815	Tray 2 Paper Size Detection Switch	6		
				2	Tray 2 Paper Size Detection Switch: 5	I	(Combination)	(Combination)				5		
				3	Tray 2 Paper Size Detection Switch: 4	I	(Combination)	(Combination)				4		
				4	Tray 2 Paper Size Detection Switch: 3	I	(Combination)	(Combination)				3		
				5	Tray 2 Paper Size Detection Switch: 2	I	(Combination)	(Combination)				2		
				6	Tray 2 Paper Size Detection Switch: 1	I	(Combination)	(Combination)				1		
				7	Paper Feed Sensor2 : GND	G			D2235481	CN783	Paper Feed Sensor2	8		
				8	Paper Feed Sensor2	I	Paper Not Detected	Paper Detected				7		
				9	Paper Feed Sensor2 : +5V	P						6		
				10	Vertical Transport Sensor2 : GND	G					Vertical Transport Sensor2	5		
				11	Vertical Transport Sensor2	I	Paper Not Detected	Paper Detected				4		
				12	Vertical Transport Sensor2 : +5V	P						3		
				13	Pick-up Solenoid2 : +24V	P						2		
				14	Pick-up Solenoid2	O	Stop	Drive				1		
				15	Paper End Sensor2 : GND	G			D2235481	CN782	Paper End Sensor2	24		
				16	Paper End Sensor2	I	Paper Detected	Paper Not Detected				23		
				17	Paper End Sensor2 : +5V	P						22		
				18	Lift Sensor2 : GND	G					Lift Sensor2	21		
				19	Lift Sensor2	I	Up	Not Up				20		
				20	Lift Sensor2 : +5V	P						19		
				21	Reverse Release Solenoid2 : +24V	P						18		
				22	Reverse Release Solenoid2	O	Stop	Drive				17		
				23	N.C.	N						16		
				24	N.C.	N						15		
				25	N.C.	N						14		
				26	N.C.	N						13		
				27	N.C.	N						12		
				28	N.C.	N						11		
		CN263		1	PFU Fan1 : +24VS	P			D2235481	CN782	PFU Fan1	12		
				2	PFU Fan1 : Lock	I	Lock	Rotate				11		
				3	PFU Fan1 : Drive	O	Stop	Drive				10		
				4	PFU Fan2 : +24VS	P					PFU Fan2	9		
				5	PFU Fan2 : Lock	I	Lock	Rotate				8		
				6	PFU Fan2 : Drive	O	Stop	Drive				7		
				7	PFU Fan3 : +24VS	P						6		
				8	PFU Fan3 : Lock	I	Lock	Rotate				5		
				9	PFU Fan3 : Drive	O	Stop	Drive				4		
				10	PFU Fan4 : +24VS	P					PFU Fan4	3		
				11	PFU Fan4 : Lock	I	Lock	Rotate				2		
				12	PFU Fan4 : Drive	O	Stop	Drive				1		
		CN269		1	Tray 3 Paper Size Detection Switch: GND	G			D2236619	CN828	Tray 3 Paper Size Detection Switch	6		
				2	Tray 3 Paper Size Detection Switch: 5	I	(Combination)	(Combination)				5		
				3	Tray 3 Paper Size Detection Switch: 4	I	(Combination)	(Combination)				4		
				4	Tray 3 Paper Size Detection Switch: 3	I	(Combination)	(Combination)				3		
				5	Tray 3 Paper Size Detection Switch: 2	I	(Combination)	(Combination)				2		
				6	Tray 3 Paper Size Detection Switch: 1	I	(Combination)	(Combination)				1		
				7	Tray 4 Paper Size Detection Switch: GND	G			D2236619	CN829	Tray 4 Paper Size Detection Switch	6		
				8	Tray 4 Paper Size Detection Switch: 5	I	(Combination)	(Combination)				5		
				9	Tray 4 Paper Size Detection Switch: 4	I	(Combination)	(Combination)				4		
				10	Tray 4 Paper Size Detection Switch: 3	I	(Combination)	(Combination)				3		
				11	Tray 4 Paper Size Detection Switch: 2	I	(Combination)	(Combination)				2		
				12	Tray 4 Paper Size Detection Switch: 1	I	(Combination)	(Combination)				1		
				13	Temperature Sensor: Temperature	I	-	-	D2235481	CN785	Temperature Sensor	4		
				14	Temperature Sensor: GND	G						3		
				15	Jam LED (A) : Drive	O	Light Off	Light Off			CN784	2		
				16	Jam LED (A) : +5V	P						1		
				17	N.C.	N						-		
				18	Paper Feed Sensor1 : GND	G						16		
				19	Paper Feed Sensor1	I	Paper Not Detected	Paper Detected				15		
				20	Paper Feed Sensor1 : +5V	P						14		
				21	Vertical Transport Sensor1 : GND	G					Vertical Transport Sensor1	13		
				22	Vertical Transport Sensor1	I	Paper Not Detected	Paper Detected				12		
				23	Vertical Transport Sensor1 : +5V	P						11		
				24	Pick-up Solenoid1 : +24V	P						10		
				25	Pick-up Solenoid1	O	Stop	Drive				9		
				26	Paper End Sensor1 : GND	G					Paper End Sensor1	8		
				27	Paper End Sensor1	I	Paper Detected	Paper Not Detected				7		
				28	Paper End Sensor1 : +5V	P						6		
				29	Lift Sensor1 : GND	G					Lift Sensor1	5		
				30	Lift Sensor1	I	Up	Not Up				4		
				31	Lift Sensor1 : +5V	P						3		
				32	Reverse Release Solenoid1 : +24V	P						2		
				33	Reverse Release Solenoid1	O	Stop	Drive				1		
				34	N.C.	N						-		
43	D2235481	CN780	IOB Relay D2235480 CN780	A1	Paper Feed Motor 4 : ENC A				D2236322	CN853	Paper Feed Motor 4	8		
				A2	Paper Feed Motor 4 : ENC B							7		
				A3	Paper Feed Motor 4 : +5V							6		
				A4	Paper Feed Motor 4 : CW/CCW							5		
				A5	Paper Feed Motor 4 : PWM							4		
				A6	Paper Feed Motor 4 : BRAKE							3		
				A7	Paper Feed Motor 4 : GND						Paper Feed Motor 3	2		
				A8	Paper Feed Motor 4 : +24VS							1		
				A9	Paper Feed Motor 3 : ENC A				D2236322	CN852		8		
				A10	Paper Feed Motor 3 : ENC B							7		
				A11	Paper Feed Motor 3 : +5V							6		
				A12	Paper Feed Motor 3 : CW/CCW							5		
				A13	Paper Feed Motor 3 : PWM							4		
				A14	Paper Feed Motor 3 : BRAKE							3		
				A15	Paper Feed Motor 3 : GND					Paper Feed Motor 2	2			
				A16	Paper Feed Motor 3 : +24VS						1			
				B1	Paper Feed Motor 2 : ENC A				D2236322		CN851		8	
				B2	Paper Feed Motor 2 : ENC B								7	
				B3	Paper Feed Motor 2 : +5V								6	
				B4	Paper Feed Motor 2 : CW/CCW								5	
				B5	Paper Feed Motor 2 : PWM								4	
				B6	Paper Feed Motor 2 : BRAKE								3	
				B7	Paper Feed Motor 2 : GND					Paper Feed Motor	2			
				B8	Paper Feed Motor 2 : +24VS						1			
				B9	Paper Feed Motor : ENC A				D2236322		CN850		8	
				B10	Paper Feed Motor : ENC B								7	
				B11	Paper Feed Motor : +5V								6	
				B12	Paper Feed Motor : CW/CCW								5	
				B13	Paper Feed Motor : PWM								4	
				B14	Paper Feed Motor : BRAKE								3	
				B15	Paper Feed Motor : GND					Paper Feed Motor3	2			
				B16	Paper Feed Motor : +24VS						1			
				CN781		-	N.C.				D2236355	CN803		9
						1	Paper Feed Sensor 3 : GND				8			
						2	Paper Feed Sensor 3				7			
						3	Paper Feed Sensor 3 : 5V				6			
						4	Vertical Transport Sensor 3 : GND				Vertical Transport Sensor3		5	
						5	Vertical Transport Sensor 3						4	
						6	Vertical Transport Sensor 3 : 5V						3	
						7	Pick-up Solenoid3 : 24V				Pick-up Solenoid3		2	
						8	Pick-up Solenoid3						1	
						9	Paper End Sensor 3 : GND						Paper End Sensor3	8
						10	Paper End Sensor 3				7			
						11	Paper End Sensor 3 : 5V				6			
						12	Lift Sensor 3 : GND				Lift Sensor3			5
						13	Lift Sensor 3							4
						14	Lift Sensor 3 : 5V							3
						15	Reverse Release Solenoid3 : 24V							2
		16	Reverse Release Solenoid3				1							

RICOH MP9003SP/7503/6503 Pin Assignment Lists

Harne ss No.	Harness P/N	CN (From)		Signal Info.				Relay Harness P/N	CN (To)	
		No.	Device	Pin No.	Signal Name	DIR	L	H	No.	Device
54	D2236619	CN815	IOB Relay D2235480 CN829	1	Tray 1 Paper Size Detection Switch CGND				CN882	Tray 4 Paper Size Detection Switch
				2	Tray 1 Paper Size Detection Switch 5					
				3	Tray 1 Paper Size Detection Switch 4					
				4	Tray 1 Paper Size Detection Switch 3					
				5	Tray 1 Paper Size Detection Switch 2					
				6	Tray 1 Paper Size Detection Switch 1					
57	D2236355	CN801	IOB Relay D2235481 CN801	1	—				—	—
				2	Paper Feed Sensor: CGND				CN845	Paper Feed Sensor1 (Tray1 Paper Feed Unit)
				3	Paper Feed Sensor					
				4	Paper Feed Sensor :VCC					
				5	Vertical Transport Sensor :CGND				CN844	Vertical Transport Sensor1 (Tray1 Paper Feed Unit)
				6	Vertical Transport Sensor					
				7	Vertical Transport Sensor :VCC					
				8	Pick-up Solenoid :VAA				CN846	Pick-up Solenoid1 (Tray1 Paper Feed Unit)
				9	Pick-up Solenoid					
57	D2236355	CN801	IOB Relay D2235481 CN802	1	—				—	—
				2	Paper Feed Sensor: CGND				CN845	Paper Feed Sensor2 (Tray2 Paper Feed Unit)
				3	Paper Feed Sensor					
				4	Paper Feed Sensor :VCC					
				5	Vertical Transport Sensor :CGND				CN844	Vertical Transport Sensor2 (Tray2 Paper Feed Unit)
				6	Vertical Transport Sensor					
				7	Vertical Transport Sensor :VCC					
				8	Pick-up Solenoid :VAA				CN846	Pick-up Solenoid2 (Tray2 Paper Feed Unit)
				9	Pick-up Solenoid					
57	D2236355	CN801	IOB Relay D2235481 CN803	1	—				—	—
				2	Paper Feed Sensor: CGND				CN845	Paper Feed Sensor3 (Tray3 Paper Feed Unit)
				3	Paper Feed Sensor					
				4	Paper Feed Sensor :VCC					
				5	Vertical Transport Sensor :CGND				CN844	Vertical Transport Sensor3 (Tray3 Paper Feed Unit)
				6	Vertical Transport Sensor					
				7	Vertical Transport Sensor :VCC					
				8	Pick-up Solenoid :VAA				CN846	Pick-up Solenoid3 (Tray3 Paper Feed Unit)
				9	Pick-up Solenoid					
57	D2236355	CN801	IOB Relay D2235481 CN804	1	—				—	—
				2	Paper Feed Sensor: CGND				CN845	Paper Feed Sensor4 (Tray4 Paper Feed Unit)
				3	Paper Feed Sensor					
				4	Paper Feed Sensor :VCC					
				5	Vertical Transport Sensor :CGND				CN844	Vertical Transport Sensor4 (Tray4 Paper Feed Unit)
				6	Vertical Transport Sensor					
				7	Vertical Transport Sensor :VCC					
				8	Pick-up Solenoid :VAA				CN846	Pick-up Solenoid4 (Tray4 Paper Feed Unit)
				9	Pick-up Solenoid					
55	D2236319	CN809	IOB Relay D2235481 CN805	1	Paper End Sensor :CGND				CN840	Paper End Sensor1 (Tray1 Paper Feed Unit)
				2	Paper End Sensor					
				3	Paper End Sensor :VCC					
				4	Lift Sensor :CGND				CN841	Lift Sensor1 (Tray1 Paper Feed Unit)
				5	Lift Sensor					
				6	Lift Sensor :VCC					
				7	Reverse Release Solenoid :VAA				CN842	Reverse Release Solenoid1 (Tray1 Paper Feed Unit)
				8	Reverse Release Solenoid					
55	D2236319	CN809	IOB Relay D2235481 CN806	1	Paper End Sensor :CGND				CN840	Paper End Sensor2 (Tray2 Paper Feed Unit)
				2	Paper End Sensor					
				3	Paper End Sensor :VCC					
				4	Lift Sensor :CGND				CN841	Lift Sensor2 (Tray2 Paper Feed Unit)
				5	Lift Sensor					
				6	Lift Sensor :VCC					
				7	Reverse Release Solenoid :VAA				CN842	Reverse Release Solenoid2 (Tray2 Paper Feed Unit)
				8	Reverse Release Solenoid					
55	D2236319	CN809	IOB Relay D2235481 CN807	1	Paper End Sensor :CGND				CN840	Paper End Sensor3 (Tray3 Paper Feed Unit)
				2	Paper End Sensor					
				3	Paper End Sensor :VCC					
				4	Lift Sensor :CGND				CN841	Lift Sensor3 (Tray3 Paper Feed Unit)
				5	Lift Sensor					
				6	Lift Sensor :VCC					
				7	Reverse Release Solenoid :VAA				CN842	Reverse Release Solenoid3 (Tray3 Paper Feed Unit)
				8	Reverse Release Solenoid					
55	D2236319	CN809	IOB Relay D2235481 CN808	1	Paper End Sensor :CGND				CN840	Paper End Sensor4 (Tray4 Paper Feed Unit)
				2	Paper End Sensor					
				3	Paper End Sensor :VCC					
				4	Lift Sensor :CGND				CN841	Lift Sensor4 (Tray4 Paper Feed Unit)
				5	Lift Sensor					
				6	Lift Sensor :VCC					
				7	Reverse Release Solenoid :VAA				CN842	Reverse Release Solenoid4 (Tray4 Paper Feed Unit)
				8	Reverse Release Solenoid					
58	D2235476	CN700	IOB Relay D2235481	1	Jam LED (A) :Drive				CN699	Jam LED (A)
56	D2236322	CN860	IOB Relay D2235481 CN850	2	Jam LED (A) :+5V				CN850	Paper Feed Motor
				1	Paper Feed Motor :ENC A					
				2	:ENC B					
				3	:Vcc					
				4	:CW/CCW					
				5	:PWM					
				6	:BRAKE					
				7	:GND					
				8	:+24VS					
56	D2236322	CN860	IOB Relay D2235481 CN851	1	Paper Feed Motor :ENC A				CN850	Paper Feed Motor 2
				2	:ENC B					
				3	:Vcc					
				4	:CW/CCW					
				5	:PWM					
				6	:BRAKE					
				7	:GND					
				8	:+24VS					
56	D2236322	CN860	IOB Relay D2235481 CN852	1	Paper Feed Motor :ENC A				CN850	Paper Feed Motor 3
				2	:ENC B					
				3	:Vcc					
				4	:CW/CCW					
				5	:PWM					
				6	:BRAKE					
				7	:GND					
				8	:+24VS					
56	D2236322	CN860	IOB Relay D2235481 CN853	1	Paper Feed Motor :ENC A				CN850	Paper Feed Motor 4
				2	:ENC B					
				3	:Vcc					
				4	:CW/CCW					
				5	:PWM					
				6	:BRAKE					
				7	:GND					
				8	:+24VS					
46	D2235602	CN845	ACDRV Relay D2235600	1	Paper Bank Heater-Upper L				CN890	Paper Bank Heater-Upper
				2	Paper Bank Heater-Upper N					
		CN846	D2255600	1	Paper Bank Heater-Lower L				CN891	Paper Bank Heater-Lower
			CN845							
			CN846	2	Paper Bank Heater-Lower N					

Harness ss No.	Harness P/N	CN (From)			Signal Info.			Relay Harness P/N	CN (To)						
		No.	Device	Pin No.	Signal Name	DIR	L		H	No.	Device	Pin No.			
44	D2235700	CN258	IOB	A1	Paper Feed Motor 4 :ENC A	I	-	-	D2235701	CN780	Paper Feed Motor 4	A16			
				A2	Paper Feed Motor 4 :ENC B	I	-	-				A15			
				A3	Paper Feed Motor 4 :+5V	P	-	-				A14			
				A4	Paper Feed Motor 4 :CW/CCW	O	CW	CCW				A13			
				A5	Paper Feed Motor 4 :PWM	O	OFF	ON				A12			
				A6	Paper Feed Motor 4 :BRAKE	O	Release	Brake				A11			
				A7	Paper Feed Motor 4 :GND	G						A10			
				A8	Paper Feed Motor 4 :+24VS	P						A9			
				A9	Paper Feed Motor 3 :ENC A	I	-	-				A8			
				A10	Paper Feed Motor 3 :ENC B	I	-	-				A7			
				A11	Paper Feed Motor 3 :+5V	P	-	-				A6			
				A12	Paper Feed Motor 3 :CW/CCW	O	CW	CCW				A5			
				A13	Paper Feed Motor 3 :PWM	O	OFF	ON				A4			
				A14	Paper Feed Motor 3 :BRAKE	O	Release	Brake				A3			
				A15	Paper Feed Motor 3 :GND	G						A2			
				A16	Paper Feed Motor 3 :+24VS	P						A1			
				B1	Paper Feed Motor 2 :ENC A	I	-	-				Paper Feed Motor 2	B19		
				B2	Paper Feed Motor 2 :ENC B	I	-	-							
				B3	Paper Feed Motor 2 :+5V	P	-	-							
				B4	Paper Feed Motor 2 :CW/CCW	O	CW	CCW							
				B5	Paper Feed Motor 2 :PWM	O	OFF	ON							
				B6	Paper Feed Motor 2 :BRAKE	O	Release	Brake							
				B7	Paper Feed Motor 2 :GND	G									
				B8	Paper Feed Motor 2 :+24VS	P									
				B9	Paper Feed Motor :ENC A	I	-	-						Paper Feed Motor	B8
				B10	Paper Feed Motor :ENC B	I	-	-							
				B11	Paper Feed Motor :+5V	P	-	-							
				B12	Paper Feed Motor :CW/CCW	O	CW	CCW							
				B13	Paper Feed Motor :PWM	O	OFF	ON							
				B14	Paper Feed Motor :BRAKE	O	Release	Brake				B2			
				B15	Paper Feed Motor :GND	G						B1			
				B16	Paper Feed Motor :+24VS	P						B1			
				-	GND										D2236716
		T104				1	Tandem Set Detection :Right	I	Set	Not Set			Tandem Set Detection :Right	1	
		CN259				2	Front Side Fence Open Sensor :GND	G					Front Side Fence Open Sensor	2	
						3	Front Side Fence Open Sensor	I	Close	Open				3	
						4	Front Side Fence Open Sensor :+5V	P						4	
						5	Front Side Fence Closed Sensor :GND	G					Front Side Fence Closed Sensor	5	
						6	Front Side Fence Closed Sensor	I	Open	Close				6	
						7	Front Side Fence Closed Sensor :+5V	P						7	
						8	Rear Side Fence Open Sensor :GND	G					Rear Side Fence Open Sensor	8	
						9	Rear Side Fence Open Sensor	I	Close	Open				9	
						10	Rear Side Fence Open Sensor :+5V	P						10	
						11	Rear Side Fence Closed Sensor :GND	G					Rear Side Fence Closed Sensor	11	
						12	Rear Side Fence Closed Sensor	I	Open	Close				12	
						13	Rear Side Fence Closed Sensor :+5V	P						13	
						14	Tandem Set Detection :GND	G					Tandem Set Detection :GND	22	
						15	Tandem Tray Down Sensor :GND	G					Tandem Tray Down Sensor	25	
						16	Tandem Tray Down Sensor	I	Not Down	Down				26	
						17	Tandem Tray Down Sensor :+5V	P						27	
						18	Tandem Near End Sensor :GND	G					Tandem Near End Sensor	28	
						19	Tandem Near End Sensor	I	Not Detected	Detected				29	
						20	Tandem Near End Sensor :+5V	P						30	
						21	Tray 1 Paper Height Sensor1 :GND	G					Tray 1 Paper Height Sensor1	14	
						22	Tray 1 Paper Height Sensor1	I	Not Detected	Detected				15	
						23	Tray 1 Paper Height Sensor1 :+5V	P						16	
						24	Tray 1 Paper Height Sensor2 :GND	G					Tray 1 Paper Height Sensor2	17	
						25	Tray 1 Paper Height Sensor2	I	Not Detected	Detected				18	
						26	Tray 1 Paper Height Sensor2 :+5V	P						19	
						27	Tray 1 Paper Height Sensor3 :GND	G					Tray 1 Paper Height Sensor3	38	
						28	Tray 1 Paper Height Sensor3	I	Not Detected	Detected				39	
						29	Tray 1 Paper Height Sensor3 :+5V	P						40	
						30	Right Tray Paper Sensor :GND	G					Right Tray Paper Sensor	31	
						31	Right Tray Paper Sensor	I	Paper Detected	Paper Not Detected				32	
						32	Right Tray Paper Sensor :+5V	P						33	
						33	Front Side Fence Solenoid :+24V	P					Front Side Fence Solenoid	34	
						34	Front Side Fence Solenoid	O	Stop	Drive				35	
						35	Rear Side Fence Solenoid :+24V	P					Rear Side Fence Solenoid	36	
						36	Rear Side Fence Solenoid	O	Stop	Drive				37	
						37	NC	N					NC	21	
						38	NC	N					NC	24	
						39	NC	N					NC	25	
						40	NC	N					NC	-	
			CN261				1	Tray 3 Near End Sensor	I	Paper Not Detected	Paper Detected	-	CN822	Tray 3 Near End Sensor	5
							2	Tray 3 Near End Sensor :GND	G						4
							3	Tray 1 Paper Height Sensor 3	I	Paper Not Detected	Paper Detected			Tray 1 Paper Height Sensor 3	3
							4	Bottom Plate Lift Motor3 :Up	O	(Combination)	(Combination)			Bottom Plate Lift Motor3	2
							5	Bottom Plate Lift Motor3 :Down	O	(Combination)	(Combination)				1
							6	Tray 4 Near End Sensor	I	Paper Not Detected	Paper Detected	-	CN823	Tray 4 Near End Sensor	5
							7	Tray 4 Near End Sensor :GND	G						4
							8	Tray 1 Paper Height Sensor 4	I	Paper Not Detected	Paper Detected			Tray 1 Paper Height Sensor 4	3
							9	Bottom Plate Lift Motor4 :Up	O	(Combination)	(Combination)			Bottom Plate Lift Motor4	2
							10	Bottom Plate Lift Motor4 :Down	O	(Combination)	(Combination)				1
							11	NC	N					NC	-
						12	NC	N					NC	-	
						13	NC	I	Paper Not Detected	Paper Detected			NC	-	
						14	NC	G					NC	-	
						15	NC	I	Paper Not Detected	Paper Detected			NC	-	
						16	NC	O	(Combination)	(Combination)			NC	-	
						17	NC	O	(Combination)	(Combination)			NC	-	
						18	NC	I	Paper Not Detected	Paper Detected			NC	-	
						19	NC	G					NC	-	
						20	NC	I	Paper Not Detected	Paper Detected			NC	-	
						21	NC	O	(Combination)	(Combination)			NC	-	
						22	NC	O	(Combination)	(Combination)			NC	-	
						23	Bottom Plate Lift Motor1 :Down	O	(Combination)	(Combination)				-	
						24	Bottom Plate Lift Motor1 :Up	O	(Combination)	(Combination)		CN820	Bottom Plate Lift Motor1	2	
		T105				-	GND				D2236751	CN814	GND	8	
		-				-	NC						NC	4	
		CN262				1	Tandem Set Detection :Left	I	Set	Not Set					Tandem Set Detection :Left
				2	Rear Fence Motor :OUT1	O	(Combination)	(Combination)					Rear Fence Motor	2	
				3	Rear Fence Motor :OUT2	O	(Combination)	(Combination)						3	
				4	Rear Fence HP Sensor :GND	G							Rear Fence HP Sensor	5	
				5	Rear Fence HP Sensor	I	Not Home	Home						6	
				6	Rear Fence HP Sensor :+5V	P								7	
				7	Tandem Set Detection :GND	G							Tandem Set Detection :GND	9	
				8	Pressure Sensor :GND	G							Pressure Sensor	10	
				9	Pressure Sensor	I	Not	Pushed				11			
				10	Pressure Sensor :+5V	P						12			
				11	NC	N					NC	16			
				12	Left Tray Paper End Sensor	I	Paper Detected	Paper Not Detected			Left Tray Paper End Sensor	13			
				13	Left Tray Paper End Sensor :GND	G						14			
				14	Left Tray Paper End Sensor :+5V	P						15			
				15	Tandem Tray Lock Solenoid :+24V	P				-	CN816	Tandem Tray Lock Solenoid	2		
				16	Tandem Tray Lock Solenoid	O	Stop	Drive				1			
				17	Tandem Left Tray Lock Solenoid :+24V	P				-	CN819	Tandem Left Tray Lock Solenoid	2		
				18	Tandem Left Tray Lock Solenoid	O	Stop	Drive				1			
			19	NC	N					NC	-				
			20	NC	I	4 trays	3 trays			NC	-				
			21	NC	N					NC	-				
			22	NC	N					NC	-				

RICOH MP9003SP/7503/6503 Pin Assignment Lists

ss No.	Harness P/N	CN (From)		Pin No.	Signal Info.			Relay Harness P/N	CN (To)		Pin No.						
		No.	Device		Signal Name	DIR	L		H	No.		Device					
44	D2235700	CN263	IOB	1	PFU Fan1 :+24VS	P				D2235701	CN782	1	PFU Fan1				
				2	PFU Fan1 :Lock	I	Lock		Rotate				2				
				3	PFU Fan1 :Drive	O	Stop		Drive				3				
				4	NC	P							4	NC			
				5	NC	I	Lock		Rotate				5	NC			
				6	NC	O	Stop		Drive				6	NC			
				7	PFU Fan3 :+24VS	P							7	PFU Fan3			
				8	PFU Fan3 :Lock	I	Lock		Rotate				8				
				9	PFU Fan3 :Drive	O	Stop		Drive				9				
				10	PFU Fan4 :+24VS	P							10	PFU Fan4			
				11	PFU Fan4 :Lock	I	Lock		Rotate				11				
				12	PFU Fan4 :Drive	O	Stop		Drive				12				
				CN267		1	Paper Feed Sensor3 :GND	G					D2235701	CN781	1	Paper Feed Sensor3	
						2	Paper Feed Sensor3	I	Paper Not Detected			Paper Detected				2	
						3	Paper Feed Sensor3 :+5V	P								3	
						4	Vertical Transport Sensor3 :GND	G								4	Vertical Transport Sensor3
						5	Vertical Transport Sensor3	I	Paper Not Detected			Paper Detected				5	
						6	Vertical Transport Sensor3 :5V	P								6	
						7	Pick-up Solenoid3 :+24V	P								7	Pick-up Solenoid3
						8	Pick-up Solenoid3	O	Stop			Drive				8	
						9	Paper End Sensor3 :GND	G								9	Paper End Sensor3
						10	Paper End Sensor3	I	Paper Detected			Paper Not Detected				10	
						11	Paper End Sensor3 :+5V	P								11	
						12	Lift Sensor3 :GND	G								12	Lift Sensor3
						13	Lift Sensor3	I	Up			Not Up				13	
						14	Lift Sensor3 :+5V	P								14	
						15	Reverse Release Solenoid3 :+24V	P								15	Reverse Release Solenoid3
						16	Reverse Release Solenoid3	O	Stop			Drive				16	
						17	Paper Feed Sensor4 :GND	G								17	Paper Feed Sensor4
						18	Paper Feed Sensor4	I	Paper Not Detected			Paper Detected				18	
						19	Vertical Transport Sensor4 :GND	G								19	Vertical Transport Sensor4
						20	Vertical Transport Sensor4 :5V	P								20	
						21	Pick-up Solenoid4 :+24V	P								21	Pick-up Solenoid4
						22	Pick-up Solenoid4	O	Stop			Drive				22	
						23	Paper End Sensor4 :GND	G								23	Paper End Sensor4
						24	Paper End Sensor4	I	Paper Detected			Paper Not Detected				24	
		25				Paper End Sensor4 :+5V	P						25				
		26				Lift Sensor4 :GND	G						26		Lift Sensor4		
		27				Lift Sensor4	I	Up		Not Up			27				
		28				Lift Sensor4 :+5V	P						28				
		29				Reverse Release Solenoid4 :+24V	P						29		Reverse Release Solenoid4		
		30				Reverse Release Solenoid4	O	Stop		Drive			30				
		CN269		1	Tray 3 Paper Size Detection Switch :GND	G				D2236619	CN828	1	Tray 3 Paper Size Detection Switch				
				2	Tray 3 Paper Size Detection Switch :5	I	(Combination)		(Combination)				2				
				3	Tray 3 Paper Size Detection Switch :4	I	(Combination)		(Combination)				3				
				4	Tray 3 Paper Size Detection Switch :3	I	(Combination)		(Combination)				4				
				5	Tray 3 Paper Size Detection Switch :2	I	(Combination)		(Combination)				5				
				6	Tray 3 Paper Size Detection Switch :1	I	(Combination)		(Combination)				6				
				7	Tray 4 Paper Size Detection Switch :GND	G							7	Tray 4 Paper Size Detection Switch			
				8	Tray 4 Paper Size Detection Switch :5	I	(Combination)		(Combination)				8				
				9	Tray 4 Paper Size Detection Switch :4	I	(Combination)		(Combination)				9				
				10	Tray 4 Paper Size Detection Switch :3	I	(Combination)		(Combination)				10				
				11	Tray 4 Paper Size Detection Switch :2	I	(Combination)		(Combination)				11				
				12	Tray 4 Paper Size Detection Switch :1	I	(Combination)		(Combination)				12				
				13	Temperature Sensor :Temperature	I	-		-				13	Temperature Sensor			
				14	Temperature Sensor :GND	G							14				
				15	Jam LED (A) :Drive	O	Light Off		Light On				15	Jam LED (A)			
				16	Jam LED (A) :+5V	P							16				
				17	NC	N							17	NC			
				18	Paper Feed Sensor1 :GND	G							D2235701	CN784	1	Paper Feed Sensor1	
		19		Paper Feed Sensor1	I	Paper Not Detected		Paper Detected			2						
		20		Paper Feed Sensor1 :+5V	P						3						
		21		Vertical Transport Sensor1 :GND	G						4	Vertical Transport Sensor1					
		22		Vertical Transport Sensor1	I	Paper Not Detected		Paper Detected			5						
		23		Vertical Transport Sensor1 :+5V	P						6						
		24		Pick-up Solenoid1 :+24V	P						7	Pick-up Solenoid1					
		25		Pick-up Solenoid1	O	Stop		Drive			8						
		26		Paper End Sensor1 :GND	G						9	Paper End Sensor1					
		27		Paper End Sensor1	I	Paper Detected		Paper Not Detected			10						
		28		Paper End Sensor1 :+5V	P						11						
		29		Lift Sensor1 :GND	G						12	Lift Sensor1					
		30		Lift Sensor1	I	Up		Not Up			13						
		31		Lift Sensor1 :+5V	P						14						
		32		Reverse Release Solenoid1 :+24V	P						15	Reverse Release Solenoid1					
		33		Reverse Release Solenoid1	O	Stop		Drive			16						
34	NC	N						17	NC								
45	D2235701	-	IOB:Relay D2235700 CN781	1	NC	N				D2236355	CN803	1	NC				
				2	Paper Feed Sensor 3 :GND								2	Paper Feed Sensor 3			
				3	Paper Feed Sensor 3								3				
				4	Paper Feed Sensor 3 :5V								4				
				5	Vertical Transport Sensor 3 :GND								5	Vertical Transport Sensor 3			
				6	Vertical Transport Sensor 3								6				
				7	Vertical Transport Sensor 3 :5V								7				
				8	Pick-up Solenoid3 :24V								8	Pick-up Solenoid3			
				9	Pick-up Solenoid3								9				
				10	Paper End Sensor 3 :GND								10	Paper End Sensor 3			
				11	Paper End Sensor 3								11				
				12	Paper End Sensor 3 :5V								12				
				13	Lift Sensor 3 :GND								13	Lift Sensor 3			
				14	Lift Sensor 3								14				
				15	Lift Sensor 3 :5V								15				
				16	Reverse Release Solenoid3 :24V								16	Reverse Release Solenoid3			
				17	Reverse Release Solenoid3								17				
				CN781		-	NC							D2236355	CN804	-	NC
						1	Paper Feed Sensor 4 :GND									1	Paper Feed Sensor 4
						2	Paper Feed Sensor 4									2	
						3	Paper Feed Sensor 4 :5V									3	
						4	Vertical Transport Sensor 4 :GND									4	Vertical Transport Sensor 4
						5	Vertical Transport Sensor 4									5	
						6	Vertical Transport Sensor 4 :5V									6	
						7	Pick-up Solenoid4 :24V									7	Pick-up Solenoid4
						8	Pick-up Solenoid4									8	
						9	Paper End Sensor 4 :GND									9	Paper End Sensor 4
						10	Paper End Sensor 4									10	
						11	Paper End Sensor 4 :5V									11	
						12	Lift Sensor 4 :GND									12	Lift Sensor 4
						13	Lift Sensor 4									13	
						14	Lift Sensor 4 :5V									14	
						15	Reverse Release Solenoid4 :24V									15	Reverse Release Solenoid4
						16	Reverse Release Solenoid4									16	
						CN784		-	NC								D2236355
				1	Paper Feed Sensor 1 :GND										1	Paper Feed Sensor 1	
		2		Paper Feed Sensor 1									2				
		3		Paper Feed Sensor 1 :5V									3				
		4		Vertical Transport Sensor 1 :GND									4	Vertical Transport Sensor 1			
		5		Vertical Transport Sensor 1									5				
		6		Vertical Transport Sensor 1 :5V									6				
		7		Pick-up Solenoid1 :24V									7	Pick-up Solenoid1			
		8		Pick-up Solenoid1									8				
		9		Paper End Sensor 1 :GND									9	Paper End Sensor 1			
		10		Paper End Sensor 1									10				
		11		Paper End Sensor 1 :5V									11				
		12		Lift Sensor 1 :GND									12	Lift Sensor 1			
		13		Lift Sensor 1									13				
		14		Lift Sensor 1 :5V									14				
		15		Reverse Release Solenoid1 :24V									15	Reverse Release Solenoid1			
		16		Reverse Release Solenoid1									16				

RICOH MP9003SP/7503/6503 Pin Assignment Lists

Harne ss No.	Harness P/N	CN (From)		Signal Info.		Relay	Harness P/N	CN (To)	
		No.	Device	Pin No.	Signal Name			No.	Device
57	D2236355	CN801	IOB Relay D2235701 CN801	1	—	—	—	—	—
				2	Paper Feed Sensor: CGND			—	—
				3	Paper Feed Sensor			3	Paper Feed Sensor1 (Tray1 Paper Feed Unit)
				4	Paper Feed Sensor: VCC			2	—
				5	Vertical Transport Sensor: CGND			1	—
				6	Vertical Transport Sensor			2	Vertical Transport Sensor1 (Tray1 Paper Feed Unit)
				7	Vertical Transport Sensor: VCC			1	—
				8	Pick-up Solenoid: VAA			2	Pick-up Solenoid1 (Tray1 Paper Feed Unit)
				9	Pick-up Solenoid			1	—
57	D2236355	CN801	IOB Relay D2235701 CN803	1	—	—	—	—	—
				2	Paper Feed Sensor: CGND			—	—
				3	Paper Feed Sensor			3	Paper Feed Sensor3 (Tray3 Paper Feed Unit)
				4	Paper Feed Sensor: VCC			2	—
				5	Vertical Transport Sensor: CGND			1	—
				6	Vertical Transport Sensor			3	Vertical Transport Sensor3 (Tray3 Paper Feed Unit)
				7	Vertical Transport Sensor: VCC			2	—
				8	Pick-up Solenoid: VAA			2	Pick-up Solenoid3 (Tray3 Paper Feed Unit)
				9	Pick-up Solenoid			1	—
57	D2236355	CN801	IOB Relay D2235701 CN804	1	—	—	—	—	—
				2	Paper Feed Sensor: CGND			3	Paper Feed Sensor4 (Tray4 Paper Feed Unit)
				3	Paper Feed Sensor			2	—
				4	Paper Feed Sensor: VCC			1	—
				5	Vertical Transport Sensor: CGND			3	Vertical Transport Sensor4 (Tray4 Paper Feed Unit)
				6	Vertical Transport Sensor			2	—
				7	Vertical Transport Sensor: VCC			1	—
				8	Pick-up Solenoid: VAA			2	Pick-up Solenoid4 (Tray4 Paper Feed Unit)
				9	Pick-up Solenoid			1	—
55	D2236319	CN809	IOB Relay D2235701 CN805	1	Paper End Sensor: CGND	—	—	3	Paper End Sensor1 (Tray1 Paper Feed Unit)
				2	Paper End Sensor			2	—
				3	Paper End Sensor: VCC			3	—
				4	Lift Sensor: CGND			1	—
				5	Lift Sensor			3	Lift Sensor1 (Tray1 Paper Feed Unit)
				6	Lift Sensor: VCC			2	—
				7	Reverse Release Solenoid: VAA			2	Reverse Release Solenoid1 (Tray1 Paper Feed Unit)
				8	Reverse Release Solenoid			1	—
				9	Reverse Release Solenoid			3	Paper End Sensor3 (Tray3 Paper Feed Unit)
55	D2236319	CN809	IOB Relay D2235701 CN807	1	Paper End Sensor: CGND	—	—	2	—
				2	Paper End Sensor			1	—
				3	Paper End Sensor: VCC			3	—
				4	Lift Sensor: CGND			1	—
				5	Lift Sensor			3	Lift Sensor3 (Tray3 Paper Feed Unit)
				6	Lift Sensor: VCC			2	—
				7	Reverse Release Solenoid: VAA			1	—
				8	Reverse Release Solenoid			2	Reverse Release Solenoid3 (Tray3 Paper Feed Unit)
				9	Reverse Release Solenoid			1	—
55	D2236319	CN809	IOB Relay D2235701 CN808	1	Paper End Sensor: CGND	—	—	3	Paper End Sensor4 (Tray4 Paper Feed Unit)
				2	Paper End Sensor			2	—
				3	Paper End Sensor: VCC			1	—
				4	Lift Sensor: CGND			3	Lift Sensor4 (Tray4 Paper Feed Unit)
				5	Lift Sensor			2	—
				6	Lift Sensor: VCC			1	—
				7	Reverse Release Solenoid: VAA			2	Reverse Release Solenoid4 (Tray4 Paper Feed Unit)
				8	Reverse Release Solenoid			1	—
				9	Reverse Release Solenoid			3	—
58	D2235476	CN700	IOB Relay D2235701	1	Jam LED (A) : Drive	—	—	2	Jam LED (A)
				2	Jam LED (A) : +5V			1	—
				1	Paper Feed Motor: ENG A			8	Paper Feed Motor
				2	— :ENG B			7	—
				3	— :Vcc			3	—
				4	— :CW/CCW			5	—
				5	— :PWM			4	—
				6	— :BRAKE			3	—
				7	— :GND			2	—
56	D2236322	CN860	IOB Relay D2235701 CN850	8	— :24VS	—	—	1	—
				1	Paper Feed Motor: ENG A			8	Paper Feed Motor 2
				2	— :ENG B			7	—
				3	— :Vcc			6	—
				4	— :CW/CCW			5	—
				5	— :PWM			4	—
				6	— :BRAKE			3	—
				7	— :GND			2	—
				8	— :24VS			1	—
56	D2236322	CN860	IOB Relay D2235701 CN852	1	Paper Feed Motor: ENG A	—	—	8	Paper Feed Motor 3
				2	— :ENG B			7	—
				3	— :Vcc			6	—
				4	— :CW/CCW			5	—
				5	— :PWM			4	—
				6	— :BRAKE			3	—
				7	— :GND			2	—
				8	— :24VS			1	—
				9	— :24VS			1	—
56	D2236322	CN860	IOB Relay D2235701 CN853	1	Paper Feed Motor: ENG A	—	—	8	Paper Feed Motor 4
				2	— :ENG B			7	—
				3	— :Vcc			6	—
				4	— :CW/CCW			5	—
				5	— :PWM			4	—
				6	— :BRAKE			3	—
				7	— :GND			2	—
				8	— :24VS			1	—
				9	— :24VS			1	—
46	D2235602	CN945	ACDRV Relay D2235600 CN945	1	Paper Bank Heater-Upper L	—	—	1	Paper Bank Heater-Upper
				2	Paper Bank Heater-Upper N			2	—
		CN946	D2235600 CN946	1	Paper Bank Heater-Lower L	—	—	1	Paper Bank Heater-Lower
				2	Paper Bank Heater-Lower N			2	—
		CN1	ACDRV	2	Thermostat	—	—	—	Thermostat
				5	Thermostat			—	Thermostat
				1	Fusing Lamp1			1	Fusing Lamp1
				4	Fusing Lamp2			1	Fusing Lamp2
				—	Thermostat			1	Thermostat
				3	HEATER H-1			1	HEATER
				6	HEATER L-1			1	—
65	D2234160	CN1	Charger/Discharger	12	Reed SW	—	—	1	Reed SW
				13	Reed SW			2	—
				9	Thermisor: Center: Detection			2	Thermisor: Center
				10	Thermisor: Center: Compensation			3	—
				11	Thermisor: Center: GND			1	—
				18	Thermisor: Rear: 5V			1	Thermisor: Rear
				19	Thermisor: Rear: GND			2	—
				16	Set Detection			—	Set Detection
				G	Earth			—	Earth
72	D0664155	CN1	ACDRV	1	Thermostat	—	—	—	Thermostat
				2	Thermostat			—	Thermostat
				3	Fusing Lamp1			1	Fusing Lamp1
				4	Fusing Lamp2			1	Fusing Lamp2
				—	Thermostat			1	Thermostat
				5	Reed SW			1	Reed SW
				10	Reed SW			2	—
				7	Thermisor1 (Detection)			2	Thermisor1
				12	Thermisor1 (GND)			2	—
				13	Thermisor1 (Compensation)	—	—	3	—
				6	Thermisor2			1	Thermisor2
				11	Thermisor2			2	—
				14	Contact Detection			—	Contact Detection
				G	Earth			—	Earth

Harne ss No.	Harness P/N	CN (From)		Signal Info.			Relay Harness P/N	CN (To)								
		No.	Device	Pin No.	Signal Name	DIR		L	H	No.	Device	Pin No.				
66	D2255600	CN996	ACDRV	1	AC L PSU					—	CN901	PSU	1			
				2	NC								2			
				3	AC N PSU								3			
		CN989	1	Drum Heater L						—	CN892	Drum Heater	1			
			2	Paper Bank Heater-Upper L						D2235602	CN945	Paper Bank Heater-Upper	1			
			3	Paper Bank Heater-Lower L							CN946		1			
			4	Drum Heater N						—	CN892	Drum Heater	2			
			5	Paper Bank Heater-Upper N						D2235602	CN945	Paper Bank Heater-Upper	2			
		CN991	6	Paper Bank Heater-Lower N							CN946		2			
			1	Scanner Heater L						—	CN893	Scanner Heater	1			
			2	NC									—			
		CN985	3	Scanner Heater N							CN893		2			
			1	HT1.2/L							TI101	HT1.2	—			
			2	HT1/N						D2234160	CN610	Fusing UNI	3			
		CN986	1	HT2/N						D0664155			—			
			2	NC									4			
		TI101	—	HT1/L							CN610		1			
			—	HT2/L									2			
		CN270	IOB	1	Thermistor-Center Compensation Input									13		
				2	NC									—		
				3	Thermistor-Center Detection Input							CN610		7		
				4	Thermistor-Center Detection GND									12		
				5	NC									—		
				6	Fusing Unit : Set Detection							CN610		14		
				7	Fusing Exit Jam Sensor : Input									5		
				8	Fusing Exit Jam Sensor : GND									10		
				9	Thermistor-Rear : Input									6		
				10	Thermistor-Rear : GND									11		
				—	GND									G		
				CN988	ACDRV	1	AC L PSU						—	CN901	PSU	1
						2	NC								2	
						3	AC N PSU								3	
				CN989	1	Drum Heater L							—	CN892	Drum Heater	1
2	Paper Bank Heater-Upper L										D2235602	CN945	Paper Bank Heater-Upper	1		
3	Paper Bank Heater-Lower L											CN946		1		
4	Drum Heater N								—	CN892	Drum Heater	2				
5	Paper Bank Heater-Upper N								D2235602	CN945	Paper Bank Heater-Upper	2				
CN991	6	Paper Bank Heater-Lower N								CN946		2				
	1	Scanner Heater L							—	CN893	Scanner Heater	—				
	2	NC										—				
CN985	3	Scanner Heater N								CN893		2				
	1	HT1.2/L							—	TI101	HT1.2	—				
	2	HT1/N							D2234160	CN610	Fusing UNI	1				
TI101	—	HT1/L							D0664155			2				
	—	HT2/L										5				
CN986	1	HT2/N										4				
	2	NC										—				
CN951	IOB	1	HEATER H.1								CN610		3			
		2	HEATER L.1									6				
		1	Thermistor-Center Compensation Input									10				
CN270	2	NC										—				
	3	Thermistor-Center Detection Input								CN610		9				
	4	Thermistor-Center Detection GND										11				
	5	NC										—				
	6	Fusing Unit : Set Detection								CN610		16				
	7	Fusing Exit Jam Sensor : Input										12				
	8	Fusing Exit Jam Sensor : GND										13				
	9	Thermistor-Rear : Input										18				
	10	Thermistor-Rear : GND										18				
	—	GND										G				
	CN100	BICU	1	LED GND		G					—	CN356	SBU	12		
			2	LED CNT N		O							10			
			3	LED ON L		O	LeftLED: ON		LeftLED: OFF				11			
	CN101	4	LED ON R		O		RightLED: ON		RightLED: OFF				9			
		5	GND LED		G								8			
		6	+24V SBU		P								7			
		7	+24V SBU		P								6			
8		GND		G								5				
9		GND		G								4				
10		+5V SBU		P								3				
11		+5V SBU		P								2				
12		GND		G								1				
1		HP Sensor GND								—	CN940	HP Sensor	3			
2		HP Sensor										2				
3		HP Sensor +5V										1				
4		APS Sensor1 GND								—	CN941	APS Sensor1	3			
5		APS Sensor1										2				
6		APS Sensor1 +5V										1				
7		APS Sensor2 GND								—	CN942	APS Sensor2	3			
8		APS Sensor2										2				
9	APS Sensor2 +5V										18					
82	D2235305	CN355	SBU	1	XS1G5 SBU		I					CN103	BICU	2		
				2	E TA+		O							19		
				3	E TA-		O							20		
				4	E TC+		O							21		
				5	E TC-		O							22		
				6	E TD+		O							23		
				7	E TD-		O							24		
				8	GND		O							25		
				9	SHGATE N		I								26	
				10	O TA+		O								27	
				11	O TA-		O								28	
				12	O TC+		O								29	
				13	O TC-		O								30	
				14	O TD+		O								31	
				15	O TD-		O								32	
				16	GND		G								33	
				17	SYCLK SBU		I								34	
				18	SYDI SBU		O								1	
				19	GND		G								2	
				20	O TE-		O								3	
				21	O TE+		O								4	
				22	O LVCK-		O								5	
				23	O LVCK+		O								6	
				24	O TB-		O								7	
				25	O TB+		O								8	
				26	SFGATE N		I								9	
				27	GND		G								10	
				28	E TE-		O								11	
				29	E TE+		O								12	
				30	E LVCK-		O								13	
				31	E LVCK+		O								14	
				32	E TB-		O								15	
				33	E TB+		O								16	
				34	SYDO SBU		I								17	
83	D2235428	CN102	BICU	1	Scanner Motor XA						—	CN943	Scanner Motor	6		
				2	Scanner Motor +24VAM									5		
				3	Scanner Motor A									4		
				4	Scanner Motor B									3		
				5	Scanner Motor +24VAM									2		
				6	Scanner Motor XB									1		
85	D2235488	CN984	ACDRV	1	Capacitor AC Output L						—	CN440	CAPCNT	1		
				2	NC									2		
				3	Capacitor AC Output N									3		
				4	NC									—		
86	D0625494	CN951	ACDRVRelay D2235600	1	Heater H						—	CN445	CAPCNT	1		
				2	Heater L									2		
87	D0625495	CN443	CAPCNT	1	DC+							—	CN947	Capacitor UNI	1	
				2	GND									2		

RICOH MP9003SP/7503/6503 Pin Assignment Lists

Harne ss No.	Harness P/N	CN (From)			Signal Info.			Relay Harness P/N	CN (To)					
		No.	Device	Pin No.	Signal Name	DIR	L		H	No.	Device	Pin No.		
88	D2235453	CN117	BICU	2	GND				-	CN265	IOB	2		
				3	IOB WS N		Asserted	Negated				3		
				4	IOB RD N		-	-				4		
				5	GND							5		
				6	IOB RD WR N							6		
				7	IOB1 CS N							7		
				8	GND							8		
				9	IOB2 CS N							9		
				10	GND							10		
				11	IOB D(24)							11		
				12	IOB D(25)							12		
				13	IOB D(26)							13		
				14	IOB D(27)							14		
				15	IOB D(28)							15		
				16	IOB D(29)							16		
				17	IOB D(30)							17		
				18	IOB D(31)							18		
				19	IOB A(0)							19		
				20	IOB A(1)							20		
				37	IOB A(8)							37		
				38	IOB A(19)							38		
				39	IOB A(20)							39		
				40	IOB3 CS N							40		
				21	IOB A(2)							21		
				22	IOB A(3)							22		
				23	IOB A(4)							23		
				24	IOB A(5)							24		
				25	IOB A(6)							25		
				26	IOB A(7)							26		
				27	IOB A(8)							27		
				28	IOB A(9)							28		
				29	IOB A(10)							29		
				30	IOB A(11)							30		
				31	IOB A(12)							31		
				32	IOB A(13)							32		
				33	IOB A(14)							33		
34	IOB A(15)				34									
35	IOB A(16)				35									
36	IOB A(17)				36									
98	D1795732	P1	CTL	1	G				P2	HDD	1			
				2	A+						2			
				3	A-						3			
				4	G						4			
				5	B-						5			
				6	B+						6			
				7	G						7			
97	D2235784	CN1	CTL	1					CN2	HDD	4			
				2							2			
				3							3			
102	D6835630	CN116	ADF	1	PWR CNTL			D2235506	CN901	BICU	16			
				2	GND						15			
				3	5V DFIN						14			
				4	DFGATE						13			
				5	RXD(Main→DF)						12			
				6	SETSN						11			
				7	TXD(DF→Main)						10			
				8	5VE						9			
				9	24V IN						8			
				10	24V IN						7			
				11	24V IN						6			
				12	24V IN						5			
				13	GND						4			
				14	GND						3			
				15	GND						2			
				16	GND						1			
116	D3AZ5650	CN1	ADF	-	FG				T2	BICU	1			
				1	GND						2			
				8	GND						3			
				20	E SDD+						4			
				19	E SDD+						5			
				24	ESCLK+						6			
				25	ESCLK+						7			
				28	E SDB+						8			
				29	E SDB+						9			
				9	O SDC+						10			
				10	O SDC+						11			
				13	O SDE+						12			
				14	O SDE+						13			
				4	O SDA+						14			
				5	O SDA+						15			
				15	GND						16			
				16	GND						17			
				7	O SDB+						18			
				6	O SDB+						19			
				3	OSCLK+						20			
				2	OSCLK+						21			
				12	O SDD+						22			
				11	O SDD+						23			
				23	GND						24			
				30	GND						25			
				27	E SDA+						26			
				26	E SDA+						27			
				17	E SDE+						28			
				18	E SDE+						29			
				21	E SDC+						30			
				22	E SDC+						30			
99	D2235306	CN1	BICU	1	VBUS				CN2	Operation UNI	1			
				2	D+						2			
				3	D+						3			
				5	GND						5			
				6	MicB SSTX+						6			
				7	MicB SSTX+						7			
				8	GND DRAIN						8			
				9	MicB SSRX+						9			
				10	MicB SSRX+						10			
				4	ID						4			
63	D2234149	T1	Thermostat TH1	-					CN1	Fusing Lamp	-			
				-							CN1	Fusing Lamp	-	
				-							CN1	Fusing Lamp	-	
76	D2254152	T1	Thermostat TH1	-					CN1	Fusing Lamp	-			
				-							CN1	Fusing Lamp	-	
				-							CN1	Fusing Lamp	-	
77	D2234151	CN1	Thermostat TH3	-				D2234160 D0664155 CN9	T1	ACDRV	-			
				-							D2234160 D0664155 CN9	CN2	CAPCNT	-
				-										
64	D2234176	CN1	Fusing Lamp	-				D2234160 D0664155 CN9	T900	ACDRV	-			
				-							T901	-	-	
				-							T102	-	-	
79	D2235339	INLET	Power Cord	L	AC IN L				CN995	ACDRV	1			
				N	AC IN N								2	
				E	EARTH						T103	-	-	
80	D2255340	INLET	Power Cord	L	AC IN L				CN995	ACDRV	1			
				N	AC IN N								2	
				E	EARTH						T103	-	-	

Harne ss No.	Harness P / N	CN (From)			Signal Info.			Relay Harness P / N	CN (To)				
		No.	Device	Pin No.	Signal Name	DIR	L		H	No.	Device	Pin No.	
113	D2585829	EDGE C	SBU	1	V LED L	O			EDGE A	LEDB_L	1		
				2	V LED L	O					2		
				3	V LED L	O					3		
				4	N.C.	-					4		
				5	LED 12 L	I					5		
				6	LED 11 L	I					6		
				7	LED 10 L	I					7		
				8	LED 9 L	I					8		
				9	LED 8 L	I					9		
				10	LED 7 L	I					10		
				11	LED 6 L	I					11		
				12	LED 5 L	I					12		
				13	LED 4 L	I					13		
				14	LED 3 L	I					14		
				15	LED 2 L	I					15		
				16	LED 1 L	I					16		
				17	-	-					-	-	
				18	-	-					-	-	
				19	V LED R	O					EDGE B	LEDB_R	1
				20	V LED R	O							2
				21	V LED R	O							3
				22	N.C.	-							4
				23	LED 12 R	I							5
				24	LED 11 R	I							6
				25	LED 10 R	I							7
				26	LED 9 R	I							8
				27	LED 8 R	I							9
				28	LED 7 R	I							10
				29	LED 6 R	I							11
				30	LED 5 R	I							12
				31	LED 4 R	I							13
				32	LED 3 R	I							14
				33	LED 2 R	I							15
				34	LED 1 R	I							16