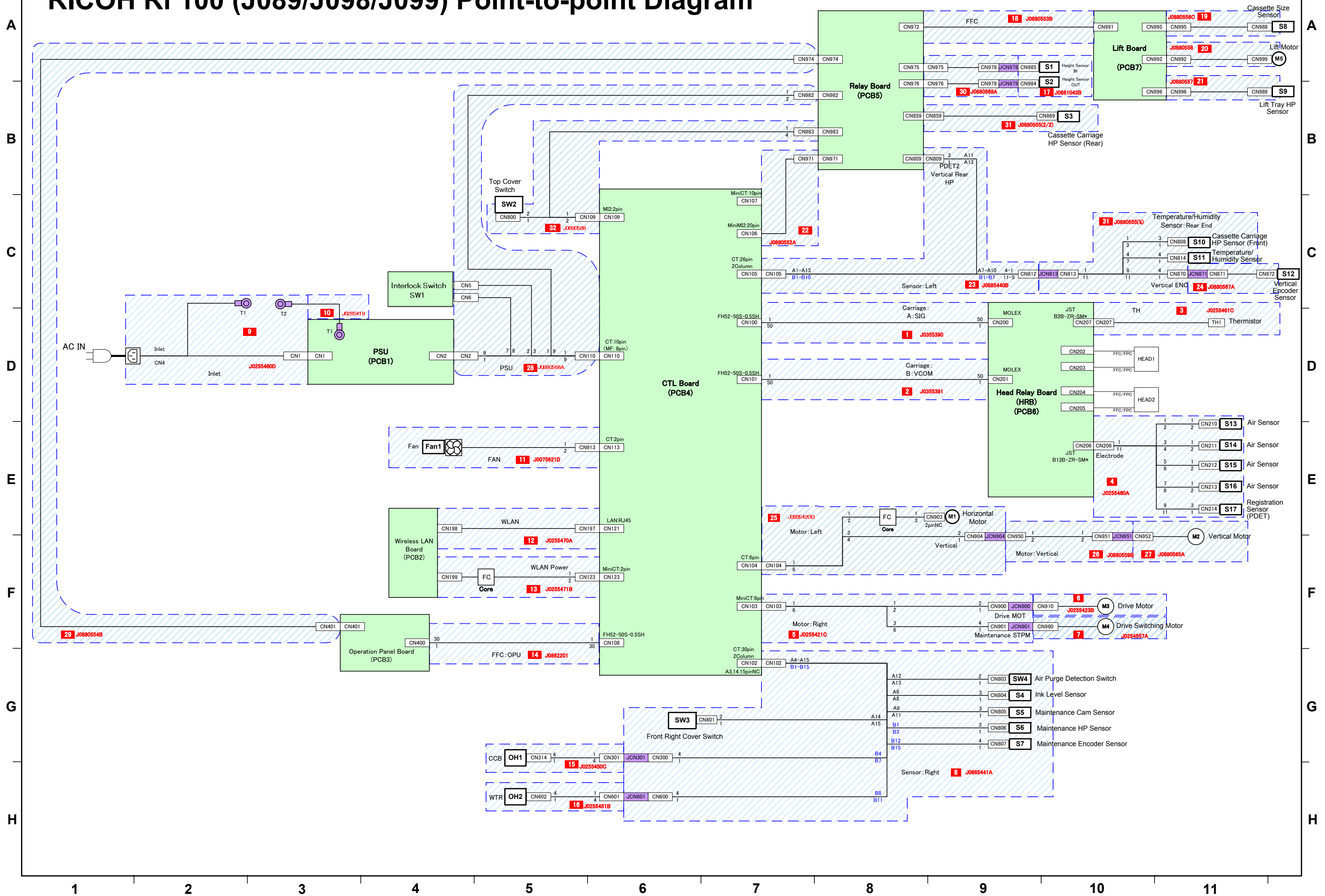


RICOH Ri 100 (J089/J098/J099) Point-to-point Diagram



RICOH Ri 100 (J089/J098/J099) Harness Pin Assignment List (1/2)

Harness Number	Harness P/N	Connector [FROM]			Signal Information Singnal Name	Connector [TO]			Note
		To	Number	Pin#		Number	Pin#	To	
1	J0355390	CTL Board (Imaging)	CN100	-	-	CN200	-	HRB	
2	J0355391	CTL Board (Imaging)	CN101	-	-	CN201	-	HRB	
3	J0255461C	HRB	CN207	-	-	-	-	Thermistor	
4	J0255460A	HRB	CN206	1	GND	CN210	1	Air Sensor (INKFL1)	
				2	INKFL1_C		2		
				3	GND	CN211	1	Air Sensor (INKFL2)	
				4	INKFL2_K		2		
				5	GND	CN212	1	Air Sensor (INKFL3)	
				6	INKFL3_Y		2		
				7	GND	CN213	1	Air Sensor (INKFL4)	
				8	INKFL4_M		2		
				9	GND	CN214	3	Registration Sensor (PDET)	
				10	+5VS		2		
				11	PET1		1		
5	J0255421C	CTL Board	CN103	1	KMOT_DP	CN900	2	Harness No.6 J0255423	CN900 and CN901 have relay connectors.
				2	KMOT_DM		1		
				3	STP_A	CN901	4	Harness No.7 J0254557	
				4	STP_B		3		
				5	STP_AB		2		
				6	STP_BB		1		
6	J0255423B	Harness No.5 J0255421C	CN910	1	KMOT_DP	-	-	Drive Motor	
2	KOMT_DM	-	-						
7	J0254557A	Harness No.5 J0255421C	CN960	1	A	-	-	Drive Switching Motor	
				2	B	-	-		
				3	A-	-	-		
				4	B-	-	-		
8	J0885441A	CTL Board	CN102	A1	N.C.	-	-	-	CN300 and CN600 have relay connectors
				A2	N.C.	-	-	-	
				A3	N.C.	-	-	-	
				A4	N.C.	-	-	-	
				A5	N.C.	-	-	-	
				A6	GND	CN804	3	Ink Level Sensor	
				A7	HTNK_FIL		2		
				A8	+5V_MAIN		1		
				A9	GND	CN805	3	Maintenance Cam Sensor	
				A10	CAM_POS		2		
				A11	VCC_MAIN_CAM_POS		1		
				A12	GND	CN803	2	Air Purge Detection Switch	
				A13	AO_POS		1		
				A14	GND	CN801	2	Front Right Cover Switch	
				A15	CTG_OPN		1		
				B1	GND	CN806	3	Maintenance HP Sensor	
				B2	STP_HP		2		
				B3	VCC_MAIN_STP_HP		1		
				B4	GND	CN300	4	Harness No.15 J0255450	
				B5	+3.3V_MAIN_ID		3		
				B6	I2C0_SCL		2		
				B7	I2C0_SDA		1		
				B8	GND	CN600	4	Harness No.16 J0255451	
				B9	+3.3V_MAIN_ID		3		
				B10	I2C1_SCL		2		
				B11	I2C1_SDA		1		
				B12	GND	CN807	4	Maintenance Encoder Sensor	
B13	MNTENCB_IN	3							
B14	VCC_MAIN_MNTENC	2							
B15	MNTENCA_IN	1							
9	J0255480D	AC Inlet	CN4	N	NEUTRAL	CN1	2	PSU	
				GND	GND	T1	-	Metal plate	
				L	LINE	CN1	1	PSU	
10	J0285419	AC Bracket	T1	1	GND	T2	1	Ground screw	

Harness Number	Harness P/N	Connector [FROM]			Signal Information Singnal Name	Connector [TO]			Note
		To	Number	Pin#		Number	Pin#	To	
11	J0075621D	CTL Board	CN913	1	DC37V	-	-	Fan	
				2	GND	-	-		
12	J0255470A	Wireless LAN Board	CN198	-	-	CN197	-	CTL	
13	J0255471B	CTL Board	CN123	1	VBUS	CN199	1	Wireless LAN Board	
				-	-		2		
				-	-		3		
				-	-		4		
				-	-		5		
				2	GND				
14	J0882201	CTL Board	CN108	-	-	CN400	-	Operation Panel Board	
15	J0255450C	CCB	CN314	4	GND	CN301	1	Harness No.8 J0885441A	
				3	VCC		2		
				2	SCL		3		
				1	SDA		4		
16	J0255451	Harness No.8 J0885441A	CN602	4	GNF	CN601	1	WTR	
				3	VCC		2		
				2	SCL		3		
				1	SDA		4		
17	J0881043A	Hight Sensor IN	-	-	VCC_24V	CN984	1	Harness No.30 J0880568	
			-	-	GND		2		
		Hight Sensor OUT	-	-	VCC_24V	CN985	1		
			-	-	OUTPUT		2		
18	J0880553B	Relay Board	CN972	1	+37V	CN991	20	Lift Board	
				2	+37V		19		
				3	+37V		18		
				4	GND		17		
				5	GND		16		
				6	GND		15		
				7	OP_MT_CLK		14		
				8	GND		13		
				9	+5V		12		
				10	D6 (BK_CURR)		11		
				11	D5 (BK_MT_EN)		10		
				12	D4 (BK_CL)		9		
				13	Y1 (001)		8		
				14	Y5 (101)		7		
				15	Z1 (001)		6		
				16	Z0 (000)		5		
				17	D3 (BK_SET_L)		4		
				18	D2 (BK_RLY_L)		3		
				19	D1 (BK_PPRE_L)		2		
				20	D0 (BK_THUNI_SET_L)		1		
19	J0880556	Lift Board	CN995	1	SIZE3	CN998	4	Cassette Size Sensor	
				2	SIZE2		3		
				3	GND		2		
				4	SIZE1		1		
20	J0880558	Lift Board	CN992	1	STPM_A	CN999	4	Lift Motor	
				-	N.C.		5		
				2	STPM_AB		6		
				3	STPM_B		3		
				-	N.C.		2		
				4	STPM_BB		1		
21	J0880557	Lift Board	CN996	1	VCC	CN989	1	Lift Tray HP Sensor	
				2	HP		2		
				3	GND		3		

RICOH Ri 100 (J089/J098/J099) Harness Pin Assignment List (2/2)

Harness Number	Harness P/N	Connector [FROM]			Signal Information Signal Name	Connector [TO]			Note
		To	Number	Pin#		Number	Pin#	To	
22	J0880552A	CTL Board (Bank I/O)	CN106	1	N.C.	CN971	20	Relay Board	
				2	N.C.		19		
				3	BK_SEL3		18		
				4	BK_SEL1		17		
				5	BK_SEL2		16		
				6	BK_SEL0		15		
				7	GND		14		
				8	GND		13		
				9	+37V_OP		12		
				10	+37V_OP		11		
				11	BK_THUNI_SET_R		10		
				12	BK_PPRE_R		9		
				13	BK_RLY_R		8		
				14	BK_SET_R		7		
				15	BK_CL_N		6		
				16	OP_MT_CLK_N		5		
				17	GND		4		
				18	+5V_MAIN_BK		3		
				19	BK_MT_EN_N		2		
				20	BK_CURR_N		1		
23	J0885440B	CTL Board (Sensor I/O)	CN105	A1	N.C.	-	-	-	
				A2	N.C.	-	-	-	
				A3	N.C.	-	-	-	
				A4	N.C.	-	-	-	
				A5	N.C.	-	-	-	
				A6	N.C.	-	-	-	
				A7	GND	CN812	4	Harness No.32 J0880555	
				A8	SENCB_IN		3		
				A9	+3.3V_MAIN_SENC		2		
				A10	SENCA_IN	CN809	1	Relay Board	
				A11	VCC_MAIN_PDET2		3		
				A12	PDET2		2		
				A13	GND	CN812	1	Harness No.32 J0880555	
				B1	GND		11		
				B2	PEND		10		
				B3	VCC_MAIN_PEND		9		
				B4	ENVTMP		8		
				B5	GND		7		
				B6	ENVHUM		6		
				B7	VCC_MAIN_HUM		5		
				B8	N.C.	-	-	-	
				B9	N.C.	-	-	-	
				B10	N.C.	-	-	-	
				B11	N.C.	-	-	-	
				B12	N.C.	-	-	-	
				B13	N.C.	-	-	-	
24	J0880567A	Harness No.31 J0880555	CN871	1	GND	CN872	4	Vertical Encoder Sensor	CN871 has a relay connector.
				2	SENCB_IN		3		
				3	+3.3V_MAIN_SENC		2		
				4	SENCA_IN		1		

Harness Number	Harness P/N	Connector [FROM]			Signal Information Singnal Name	Connector [TO]			Note	
		To	Number	Pin#		Number	Pin#	To		
25	J0885420B	CTL Board (Motor I/O)	CN104	1	MMOT_AP	CN903	1	Horizontal Motor	CN904 has a relay connector.	
				2	MMOT_AM		3			
				3	SMOT_BP	CN904	2	Harness No.26 J0880559A		
				4	SMOT_BM		1			
				5	N.C.	-	-	-		
				6	N.C.	-	-	-		
26	J0880559A	Harness No.25 J0885420B	CN950	1	SMOT_BP	CN951	1	Harness No.27 J0880565A	CN951 has a relay connector.	
2	SMOT_BM	2								
27	J0880565A	Harness No.26 J0880559A	CN952	1	SMOT_BM	-	1	Vertical Motor		
				2	SMOT_BP	-	2			
28	J0880566A	CTL Board (Power I/O)	CN110	1	GND	CN2	9	PSU		
				2	+37V_PSU	CN5	1	Interlock Switch		
				3	+37V_PSU		CN2	6		PSU
				4	GND			5		
				5	GND	4				
				6	+5V_PSU	3				
				7	+5V_PSU	2				
				8	GND	2		Relay Board		
				9	HVCNT	1				
		PSU	CN2	1	HVCONT_RLY	CN982	1	Interlock Switch		
				7	+37V_PSU		CN6			1
				8	+37V_PSU					
				29	J0880554A	Relay Board	CN974	1		GND
2	OPU_RO_1	6								
3	N.C.	5								
4	OPU_START_B_LED	4								
5	N.C.	3								
6	OPU_RI_2	2								
7	OPU_START	1								
30	J0880568	CTL Board (Hight IN)	CN978	1	GND	CN975	3	Relay Board	CN978 and CN979 have relay connectors.	
				2	PE_SENSOR		2			
				3	+24V		1			
		CTL Board (Hight Out)	CN979	1	GND	CN976	2			
				2	+24V		1			
31	J0880555	Harness No.23 J0885440B	CN813	1	GND	CN808	3	Cassette Carriage HP Sensor (Front)	CN813 has a relay connector.	
				2	PEND		2			
				3	VCC_MAIN_PEND		1			
				4	ENVTMP	CN814	4	Temperature/Humidity Sensor		
				5	GND		3			
				6	ENVHUM		2			
				7	VCC_MAIN_HUM		1			
				8	GND	CN870	4	Harness No.24 J0880567A		
				9	SENCB_IN		3			
				10	+3.3V_MAIN_SENC		2			
				11	SENCA_IN		1			
		Relay Board	CN859	1	VCC_MAIN_PDET2	CN869	1	Cassette Carriage HP Sensor (Rear)		
				2	PDET2		2			
				3	GND		3			
		32	J0880569	Relay Board	CN983	1	TOP_OPN_SW	CN800		1
2	GND					2				
3	TOP_OPN_IN					CN109	2	CTL Board (Cover TOP I/O)		
4	GND						1			

RICOH Ri 100 (J089/J098/J099) ELECTRICAL COMPONENT LAYOUT

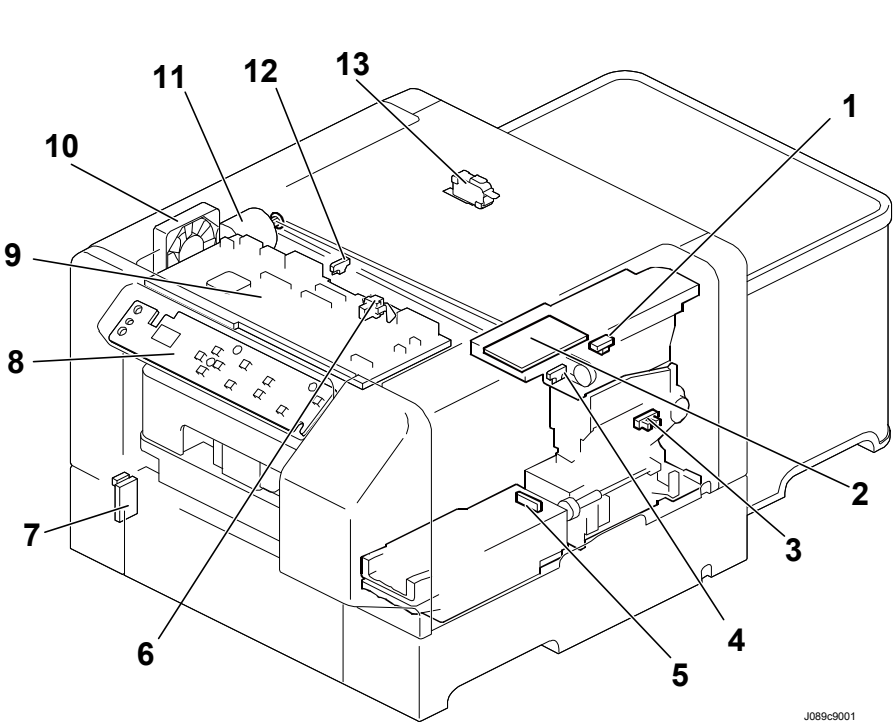


Fig-1

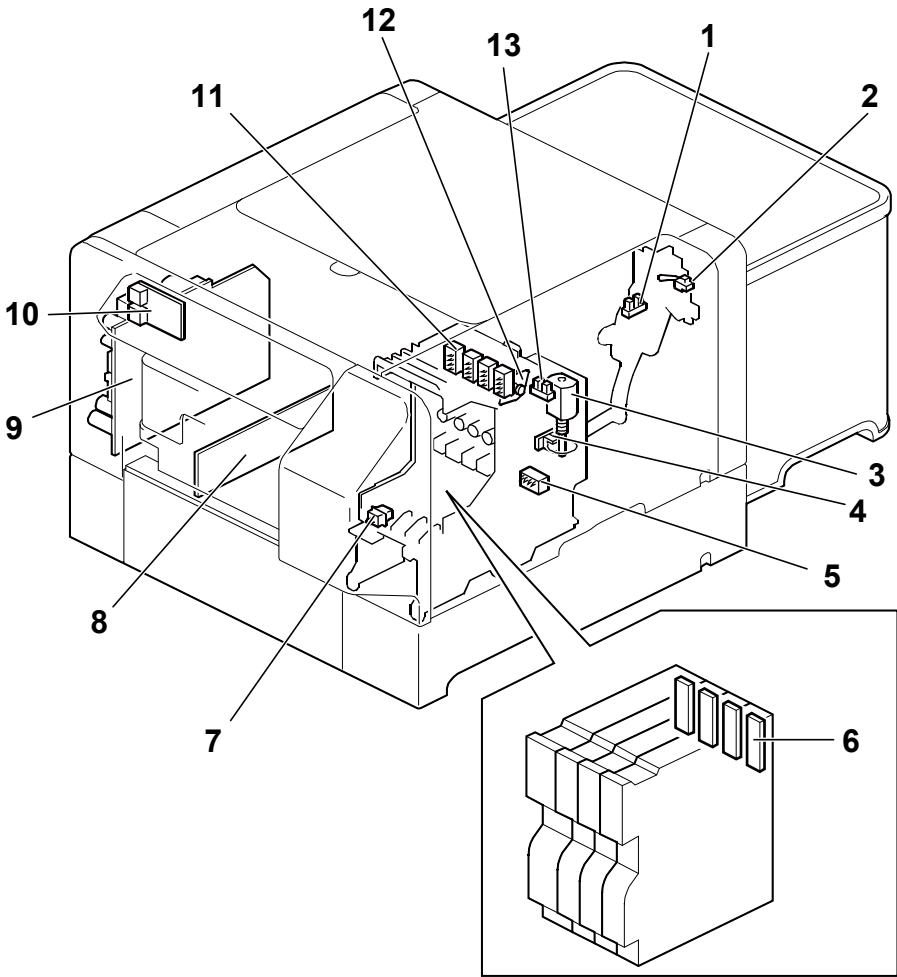


Fig-2

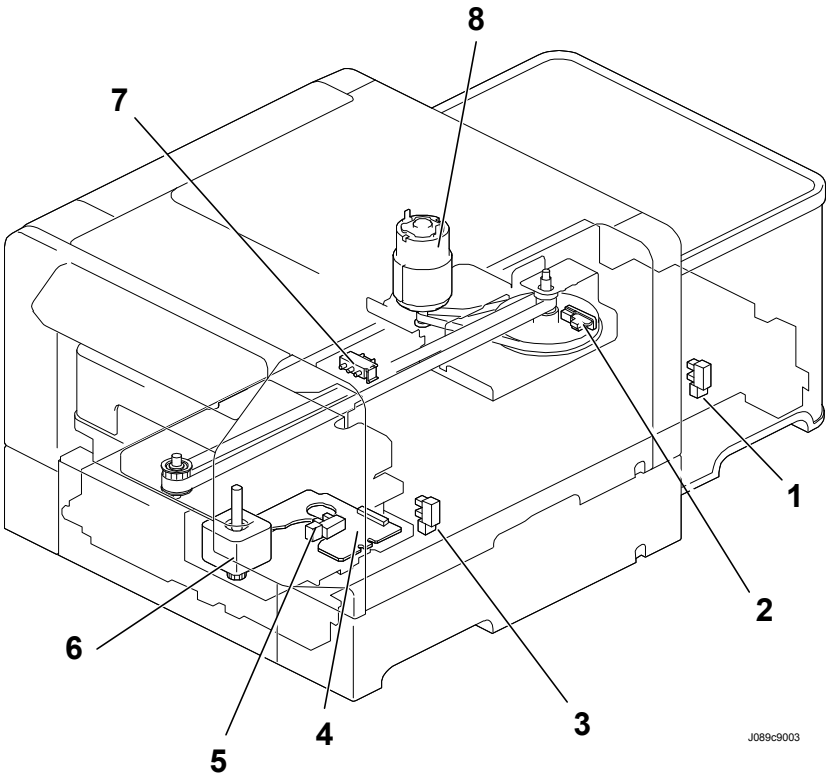


Fig-3

Symbol	Fig. No.	Index No.	Part Name	P to P
Fan				
Fan1	Fig-1	10	Fan	E4
Motors				
M1	Fig-1	11	Horizontal Motor	F9
M2	Fig-3	8	Vertical Motor	F11
M3	Fig-2	3	Drive Motor	F11
M4	Fig-2	12	Drive Switching Motor	F11
M5	Fig-3	6	Lift Motor	A11
Others				
OH1	Fig-2	11	CCB	H5
OH2	Fig-2	5	WTR	H5
-	Fig-1	5	ID chip (ink collector unit)	-
-	Fig-2	6	ID chip (ink cartridge)	-
PCBs				
PCB1	Fig-2	9	PSU	D4
PCB2	Fig-2	10	Wireless LAN Board	F4
PCB3	Fig-1	8	Operation Panel Board	G4
PCB4	Fig-1	9	CTL Board	D6
PCB5	Fig-2	8	Relay Board	B8
PCB6	Fig-1	2	Head Relay Board	E10
PCB7	Fig-3	4	Lift Board	A10
Sensors				
S1	Fig-1	4	Height Sensor IN	A10
S10	Fig-3	3	Cassette Carriage HP Sensor (Front)	C11
S11	Fig-1	7	Temperature/Humidity Sensor	C11
S12	Fig-3	2	Vertical Encoder Sensor	C11
S13	-	-	Air Sensor	E11
S14	-	-	Air Sensor	E11
S15	-	-	Air Sensor	E11
S16	-	-	Air Sensor	E11
S17	Fig-1	1	Registration Sensor	E11
S2	Fig-1	12	Height Sensor OUT	A10
S3	Fig-3	1	Cassette Carriage HP Sensor (Rear)	B10
S4	Fig-2	1	Ink Level Sensor	G10
S5	Fig-2	13	Maintenance CAM Sensor	G10
S6	Fig-1	3	Maintenance HP Sensor	G10
S7	Fig-2	4	Maintenance Encoder Sensor	G10
S8	Fig-3	7	Cassette Size Sensor	A11
S9	Fig-3	5	Lift Tray HP Sensor	B11
Switches				
SW1	Fig-1	13	Interlock Switch	D4
SW2	Fig-1	6	Top Cover Switch	C5
SW3	Fig-2	7	Front Right Cover Switch	G6
SW4	Fig-2	2	Air Purge Detection Switch	G10
Thermistor				
TH1	-	-	Thermistor	D11