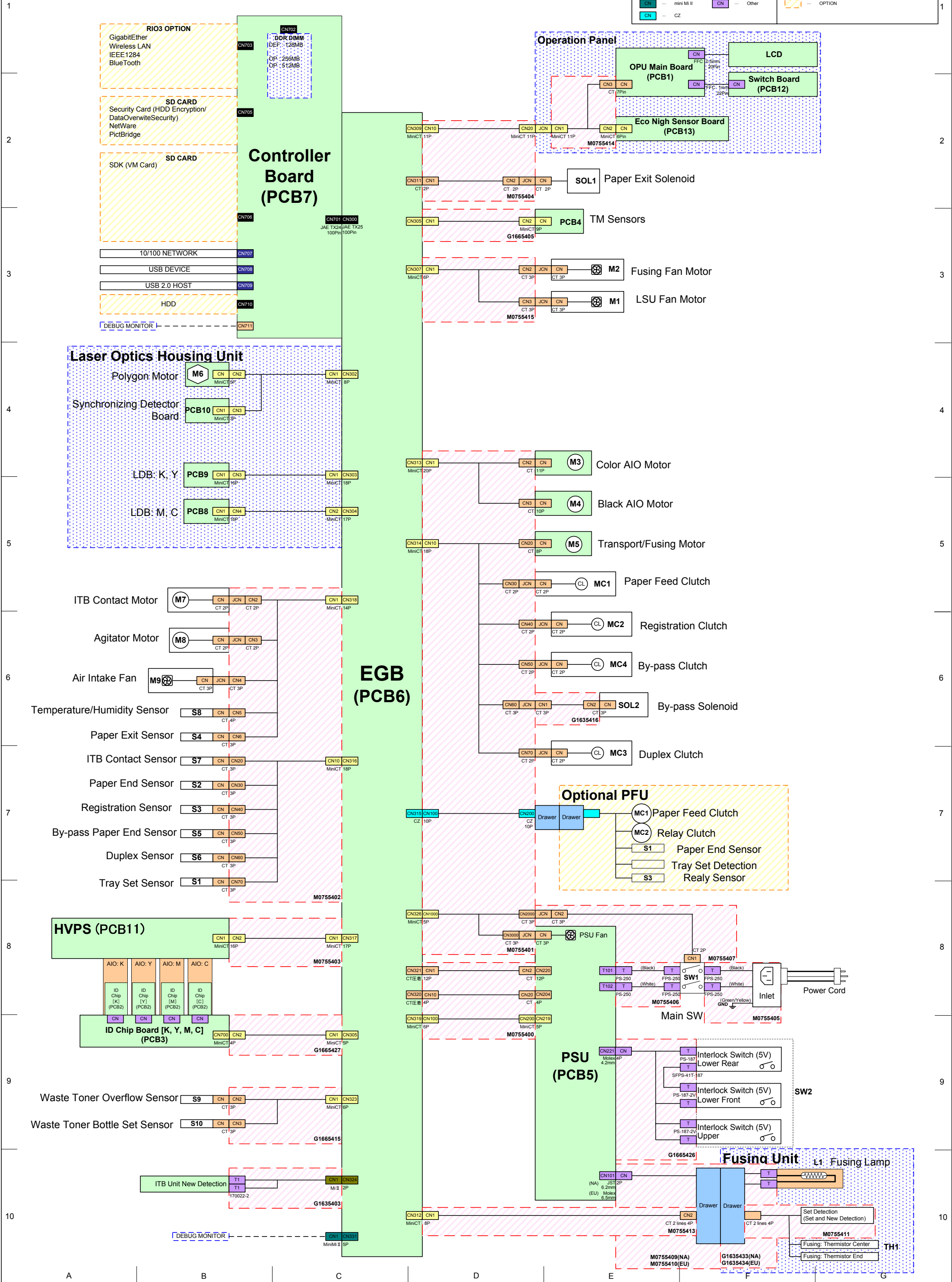


M075 Point to Point Diagram

CN ... CT	CN ... Drawer	n ... Harness No.	... Harness
CN ... mini CT	CN ... External I/F	... PCB	... Electrical Component
CN ... Mi II	CN ... B to B	... UNIT	* ... Connector color
CN ... mini Mi II	CN ... Other	... OPTION	
CN ... CZ			



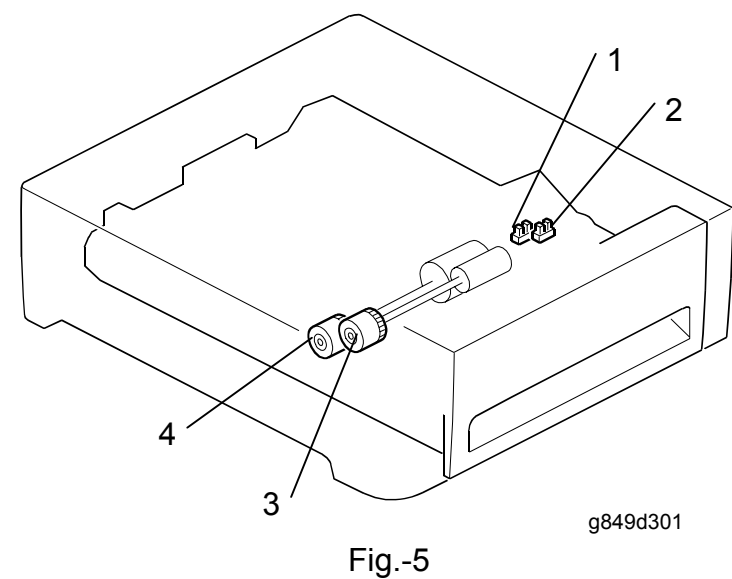
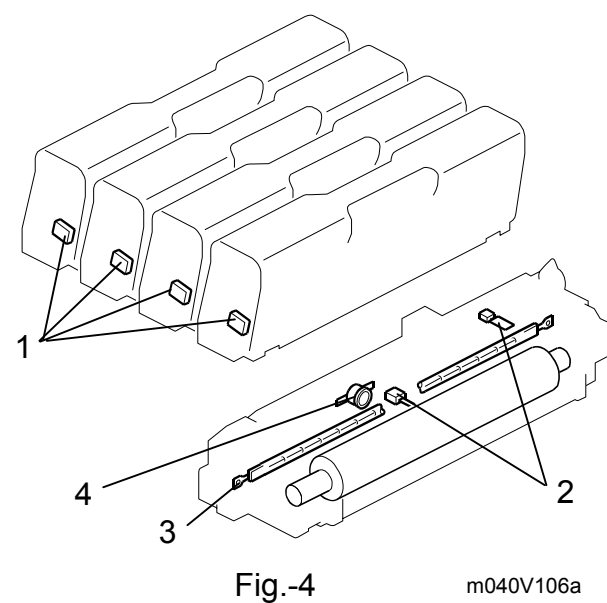
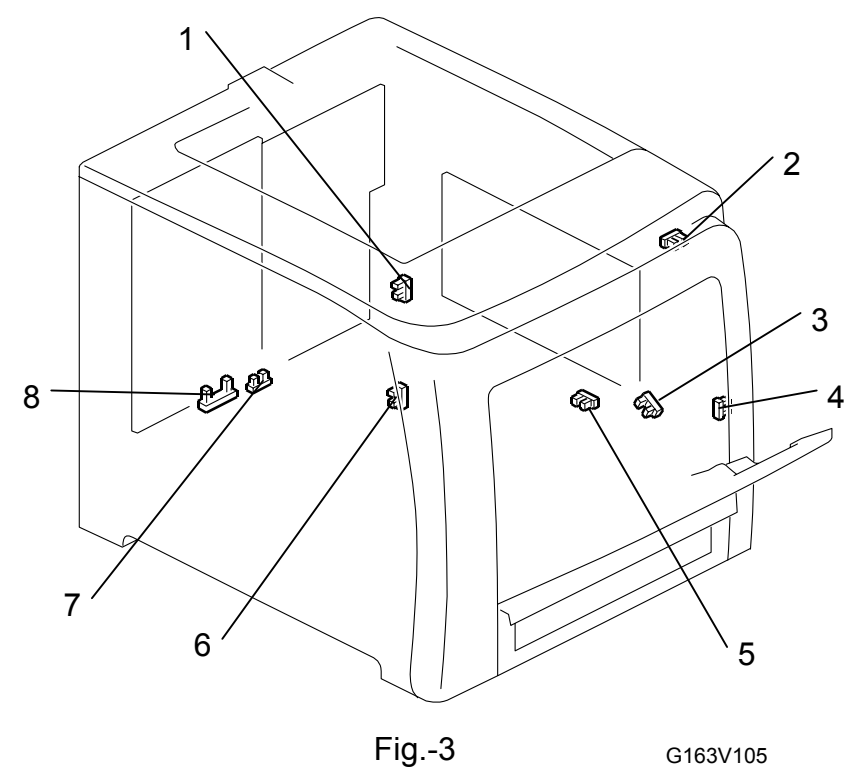
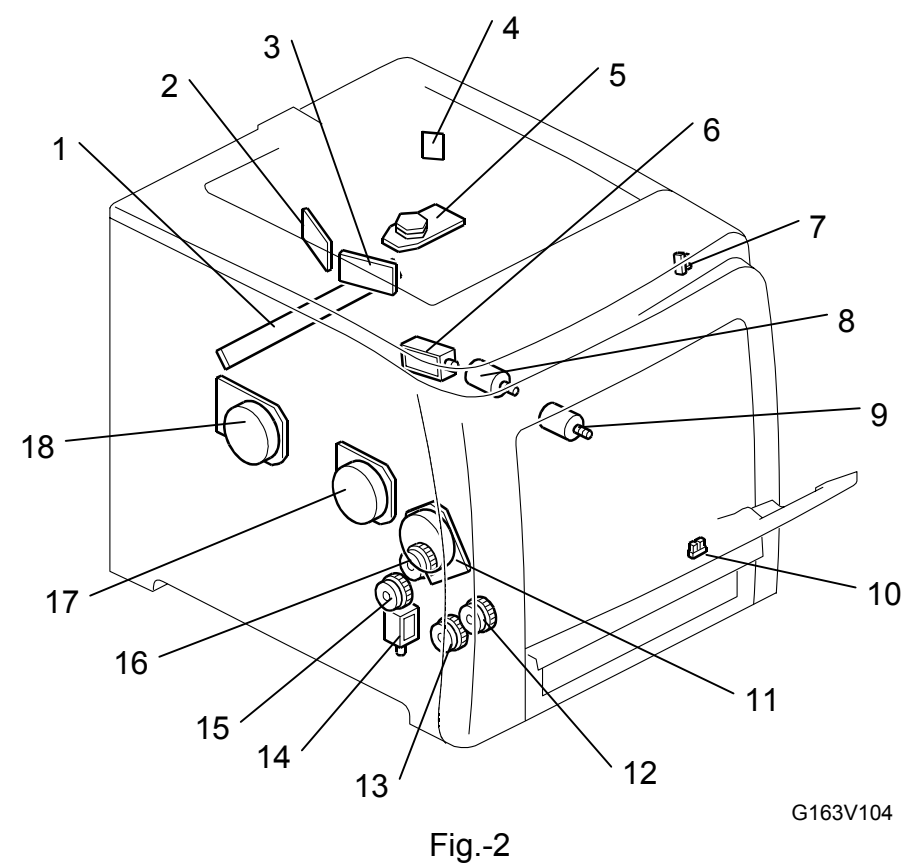
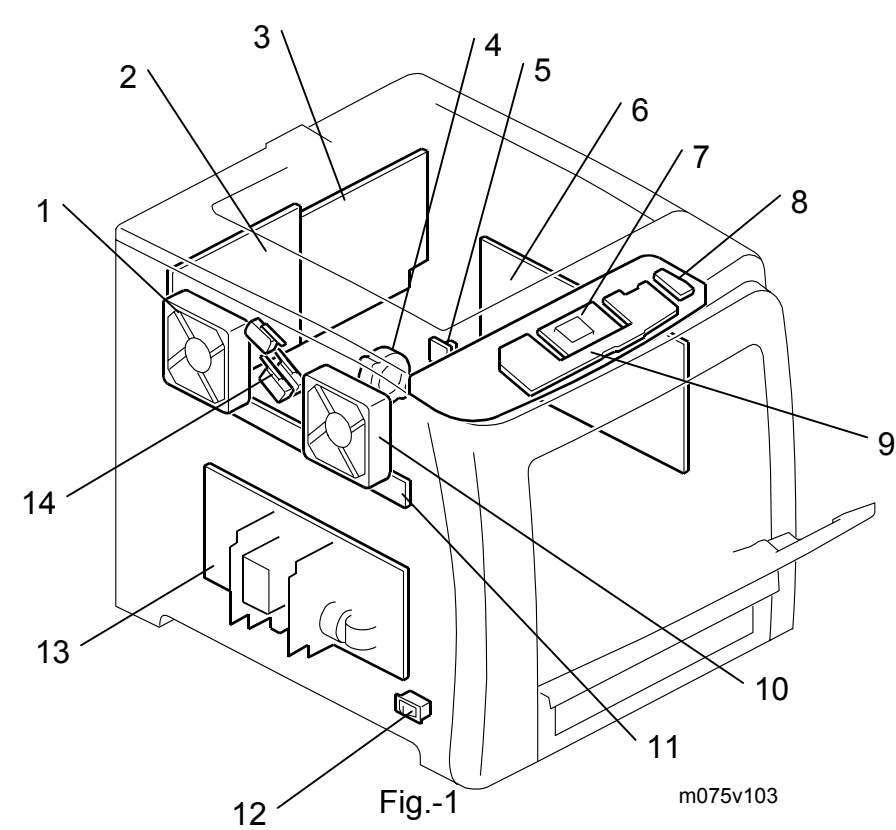
M075 Pin Assignment Lists (1/2)

Harness No.	Harness P/N	CN (From)		Signal Info.				Harness P/N	CN (To)								
		No.	Device	Pin No.	Signal Name	Direction	L		H	No.	Device	Pin No.					
1	G1665400	CN1	EGB CN302	1	+24V (Energy Saver)				CN2	Polygon Motor	4						
				2	GND							3					
				3	Polygon Mtr L: Start	→		Start			Stop	2					
				4	Polygon Mtr: Synchronize	→	Synchronized	Not Synchronized			1						
				5	Polygon Mtr:CLK OUT	→						2					
				6	Synch. 1 (KMYC START)	→						3					
				7	+5V (Energy Saver)							2					
				8	GND							1					
2	G1665456	CN1	EGB CN303	1	GND				CN3	LDB: K, Y	16						
				2	GND							15					
				3	GND							14					
				4	LDLVL2(Y)	→						13					
				5	LDLVL1(K)	→						12					
				6	LDERR_N	→						11					
				7	LDOFF2(Y)	→						10					
				8	LDOFF1(K)	→						9					
				9	APC2EN_N(Y)	→						8					
				10	APC1EN_N(K)	→						7					
				11	LDD1(K)	→						6					
				12	LDD1_N(K)	→						5					
				13	NC							4					
				14	LDD2(Y)	→						3					
				15	LDD2_N(Y)	→						2					
				16	NC							1					
				CN2	EGB CN304	1	+5V_LD (Energy Saver)						CN4	LDB: C, M	16		
						2	+5V_LD (Energy Saver)								15		
		3	GND						14								
		4	GND						13								
		5	LDLVL2(M)			→			12								
		6	LDLVL1(C)			→			11								
		7	LDERR_N			→			10								
		8	LDOFF2(M)			→			9								
		9	LDOFF1(C)			→			8								
		10	APC2EN_N(M)			→			7								
		11	APC1EN_N(C)			→			6								
		12	LDD1(C)			→			5								
		13	LDD1_N(C)			→			4								
		14	LDD2(M)			→			3								
		15	LDD2_N(M)	→			2										
		16	NC				1										
3	M0755402	CN1	EGB CN318	1	ITB Contact Motor:CTL SIG (CCW)	→			G1665457	CN2	ITB Contact Motor	2					
				2	ITB Contact Motor:CTL SIG (CW)	→						1					
				3	Agitator Motor:CTL SIG L_ON	→			G1665457		CN3	Agitator Motor	2				
				4	+24V_IL2_FU (Energy Saver)								1				
				5	Air Intake Fan:Operation SIG	→		Normal			Error	CN4	Air Intake Fan	3			
				6	Air Intake Fan:LOCK Detect SIG	→					2						
				7	GND						1						
				8	Temp Info. SIG: Analog IN	→					CN5	Temperature/Humidity Sensor	4				
				9	GND								3				
				10	Hum Info. SIG: Analog IN	→							2				
				11	+5V (Energy Saver)								1				
				12	GND				CN6	Paper Exit Sensor	3						
				13	Paper Exit SN:SIG	→	Paper Detected	Paper Not Detected			2						
				14	+5V (Energy Saver)						1						
		CN10	EGB CN316	1	GND				CN20	ITB Contact Sensor	3						
				2	ITB Contact SN:SIG_H:Contact_L:Not Cont	→	Not Contact	Contact			2						
				3	+5V (Energy Saver)						1						
				4	GND				CN30	Paper End Sensor	3						
				5	Paper End SN: SIG L:Paper Detected	→	Paper Detected	Paper Not Detected			2						
				6	+5V (Energy Saver)						1						
				7	GND				CN40	Registration Sensor	3						
				8	Regist SN: SIG L:Paper Detected	→	Paper Detected	Paper Not Detected			2						
				9	+5V(Energy Saver)対応						1						
				10	GND				CN50	By-pass Paper End Sensor	3						
				11	Bypass P-End SN: Detect SIG L:Paper Detect	→	Paper Detected	Paper Not Detected			2						
				12	+5V (Energy Saver)						1						
				13	GND				CN60	Duplex Sensor	3						
				14	Duplex SN: Detect SIG H: Paper Detected	→	Paper Detected	Paper Not Detected			2						
				15	+5V(Energy Saver)対応						1						
				16	GND				CN70	Tray Set Sensor	3						
				17	Tray Set SN: Detect SIG H: Set	→	Not Set	Set			2						
				18	+5V (Energy Saver)						1						
4	M0755403	CN1	EGB CN317	1	GND				CN2	HVPS	16						
				2	GND						15						
				3	+24V_IL2 (Energy Saver)						14						
				4	+24V_IL2 (Energy Saver)						13						
				5	Error elect SIG L:SC	→					12						
				6	Error Detect SIG: Reserve	→					11						
				7	Bias Control SIG L: Bias ON	→					10						
				8	PTR (+) Control PWM SIG	→					9						
				9	PTR (-) Control PWM SIG	→					8						
				10	ITB Bias Control PWM SIG	→					7						
				11	DEV C:Control PWM SIG	→					6						
				12	DEV M:Control PWM SIG	→					5						
				13	DEV Y:Control PWM SIG	→					4						
				14	DEV K:Control PWM SIG	→					3						
				15	Charge CMY:Control PWM SIG	→					2						
16	Charge K:Control PWM SIG	→			1												
17	-																
5	G1665415	CN1	EGB CN323	1	GND				CN2	Waste Toner Overflow Sensor	3						
				2	Waste Ttr Overflow SN: SIG IN H: Full	→		Full			2						
				3	+5V (Energy Saver)						1						
				4	GND						CN3	Waste Toner Bottle Set Sensor	3				
				5	Waste Ttr Bottle Set SN	→		Set					2				
				6	+5V(Energy Saver)対応								1				
				7	+24V_IL2_FU(Energy Saver_IL対応)												
				8	ITB Unit: New Detect SIG	→		New									
7	M0755404	CN1	EGB CN311	1	+24V_IL2 (Energy Saver)				CN2	Paper Exit Solenoid	1						
				2	Paper Exit SOI Operation SIG	→	ON	OFF			2						
				3	Light Level 4	→					M0755414	CN2	Eco Night Sensor Board	6			
				2	Light Level 3	→								5			
		3	Light Level 2	→			4										
		4	Light Level 1	→			3										
		5	GND				2										
		6	+5VE (No Energy Saver)				1										
		CN10	EGB CN309	-	-				CN3	OPU Main Board				7			
				-	-						6						
				7	Serial Data TX CLK	→					5						
				8	+5VE (No Energy Saver)						4						
				9	Serial Data (OUT)	→					3						
				10	Serial Data (IN)	→					2						
				11	GND						1						
8	G1665405			CN1	EGB CN305	1	GND				CN2	TM Sensor Board	9				
						2	TM SN 1:PWM SIG RIGHT	→	ON	OFF			8				
						3	TM SN 1:Detect SIG RIGHT Analog IN	→					7				
						4	TM SN 3: Detect SIG CENTER R Analog IN	→					6				
		5	+5V (Energy Saver)						5								
		6	TM SN 3:PWM SIG CENTER			→			4								
		7	TM SN 3:Detect SIG CENTER D Analog IN			→			3								
		8	TM SN 2:Detect SIG LEFT Analog IN			→			2								
		9	TM SN 2:PWM SIG LEFT			→			1								
		1	LSU Fan: Operation SIG			→	OFF	ON	CN2	Fusing Fan Motor			1				
		2	LSU Fan: LOCK Detect SIG			→	Normal	Error					2				
		3	GND						CN3	LSU Fan Motor			3				
		4	Fusing Fan: Operation SIG			→	OFF	ON					1				
		5	Fusing Fan: LOCK Detect SIG			→	Normal	Error	2								
6	GND																
10	G1665427	CN1	EGB CN308	1	GND				CN2	ID Chip Board [K, Y, M, C]	4						
				2	DATA (I2C)	→					3						
				3	CLK (I2C)	→					2						
				4	+5V_LD (Energy Saver, Soft SW)	→					1						
				5	NC												
				1	Ck: AIO Mtr: Gain SW SIG	→	Low SPD	High SPD			CN2	Color AIO Motor	11				
				2	Ck: AIO Mtr: CLK SIG	→							10				
				3	Ck: AIO Mtr: Start/Stop SIG	→	Start	Stop			9						
4	Ck: AIO Mtr: LOOK SIG	→	Normal	Error	8												
5	GND				7												
6	GND				6												
7	+24V_IL1 (Energy Saver, IL対応, フラッシュ用)				5												
8	+24V_IL1 (Energy Saver, IL対応, フラッシュ用)				4												
9	+24V_IL1 (Energy Saver, IL対応, フラッシュ用)				3												
10	GND				2												
11	NC				1												
11	M0755401	CN1	EGB CN313	11	BK AIO Mtr: Gain SW SIG	→	Low SPD	High SPD	CN3	Black AIO Motor	10						
				12	BK AIO Mtr: CLK SIG	→					9						
				13	BK AIO Mtr: Brake SIG	→		Brake			8						
				14	BK AIO Mtr: FW/REV SIG	→	Forward	Reverse			7						
				15	BK AIO Mtr: Start/Stop SIG	→	Start	Stop			6						
				16	BK AIO Mtr: LOCK SIG	→	Normal	Error			5						
				17	GND						4						
				18	GND						3						
				19	+24V_IL1 (Energy Save, Brushless Mtr)						2						
				20	+24V_IL1 (Energy Saver, Brushless Mtr)						1						
				CN10	EGB CN314	1	TRNF:Fusing Mtr: Gain SW SIG	→			Low SPD	High SPD	CN20	Transport/Fusing Motor	8		
						2	TRNF:Fusing Mtr: CLK SIG	→							7		
						3	TRNF:Fusing Mtr: Start/Stop SIG	→			Start	Stop			6		
						4	TRNF:Fusing Mtr: LOCK Detect SIG	→			Normal	Error			5		
						5	GND								4		
						6	GND								3		
						7	+24V_IL3 (Energy Saver, TRN Mtr)								2		
						8	+24V_IL3 (Energy Saver, TRN Mtr)								1		
						9	+24V_IL2 (Energy Saver)								CN30	Paper Feed Clutch	1
						10	Paper Feed CL: Operation SIG	→			ON	OFF					2
		11	+24V_IL1(Energy Saver, IL対応)				ON	OFF	1								
		12	Regist CL: Operation SIG			→	ON	OFF	CN40	Registration Clutch	2						
		13	+24V_IL2 (Energy Saver)				1										
		14	ByPass CL: Operation SIG	→	ON	OFF	CN50	By-pass Solenoid			3						
		15	+24V_IL2 (Energy Saver, IL対応)						2								
		16	NC						G1635416	CN2	By-pass Solenoid	1					
		17	ByPASS SOL:Operation SIG	→	ON	OFF	1										
		18	+24V_IL2 (Energy Saver)				CN70	Duplex Clutch				1					
		19	DPX CL:Operation SIG L_ON	→	ON	OFF			2								
		20	OP: PFeed CL: Operation SIG L_ON	→	ON	OFF			CN200	Optional PFU	10						
		1	OP: Paper End SN: Detect SIG	→	Paper Detected	Paper Not Detected	9										
		2	+24V_IL2 (Energy Saver)				8										
3	GND				7												
4	OP: Paper End SN: Detect SIG	→	Paper Detected	Paper Not Detected	6												
5	+5V (Energy Saver)				5												
6	OP: TRNS CL: Operation SIG L_ON	→	ON	OFF	4												
7	+24V_IL2 (Energy Saver)				3												
8	OP: Tray Set SN: Detect SIG	→	Set	Not Set	2												
9	OP: Relay SN: Detect SIG	→	Paper Not Detected	Paper Detected	1												
10	+5V (Energy Saver)																
CN1000	EGB CN326	1	Light Detect Main SW OFF SIG	→	ON	OFF	M0755407	CN1	Main SW	2							
		2	+5VE (No Energy Saver)				1										
		3	PSU Fan: Operation SIG	→	OFF	ON	CN3000			PSU PSU Fan	1						
		4	PSU Fan:LOCK Detect SIG L:Nrm, H>Error	→	Normal	Error					2						
		5	GND								3						

M075 Pin Assignment Lists (2/2)

Harness No.	Harness P/N	CN (From)		Signal Info			Relay Harness P/N	CN (To)					
		No.	Device	Pin No.	Signal Name	Direction		L	H	No.	Device	Pin No.	
	B T O B		CTL	1	GND						PCI option GigabitEthernet IEEE802.11a/g (NA) IEEE802.11a/g (EU) IEEE802.11g (SP) IEEE1284	1	
				2	INT_N	←							2
				3	GND								3
				4	Reserved								4
				5	GND								5
				6	CLKRUN	→							6
				7	GND	→							7
				8	RST_N	→							8
				9	GND								9
				10	CLK	→							10
				11	GND								11
				12	GNT_N	→							12
				13	GND								13
				14	REQ_N	←							14
				15	GND								15
				16	PME_N	←							16
				17	AD31	←							17
				18	AD30	←							18
				19	AD29	←							19
				20	AD28	←							20
				21	AD27	←							21
				22	AD26	←							22
				23	GND								23
				24	AD25	←							24
				25	AD24	←							25
				26	C/BE3_N	←							26
				27	GND								27
				28	IDSEL	→							28
				29	AD23	←							29
				30	AD22	←							30
				31	GND								31
				32	AD21	←							32
				33	AD20	←							33
				34	AD19	←							34
				35	GND								35
				36	AD18	←							36
				37	AD17	←							37
				38	AD16	←							38
				39	GND								39
				40	C/BE2_N	←							40
				41	FRAME_N	←							41
				42	IRDY_N	←							42
				43	GND								43
				44	TRDY_N	←							44
				45	DEVSEL_N	←						45	
				46	STOP_N	←						46	
				47	GND							47	
				48	PERR_N	←						48	
				49	SERR_N	←						49	
				50	PAR	←						50	
				51	GND							51	
				52	C/BE1_N	←						52	
				53	AD15	←						53	
				54	AD14	←						54	
				55	GND							55	
				56	AD13	←						56	
				57	AD12	←						57	
				58	AD11	←						58	
				59	GND							59	
				60	AD10	←						60	
				61	AD9	←						61	
				62	AD8	←						62	
				63	GND							63	
				64	C/BE0_N	←						64	
				65	AD7	←						65	
				66	AD6	←						66	
				67	AD5	←						67	
				68	AD4	←						68	
				69	AD3	←						69	
				70	AD2	←						70	
				71	+3.3V PW							71	
				72	AD1	←						72	
				73	+3.3V PW							73	
				74	AD0	←						74	
				75	+3.3V PW							75	
				76	Reserved							76	
				77	+3.3V PW							77	
				78	Reserved							78	
				79	+3.3V PW							79	
				80	Reserved							80	
				81	+3.3V PW							81	
				82	Reserved							82	
				83	+5V PW							83	
				84	Reserved							84	
				85	+5V PW							85	
				86	Reserved							86	
				87	+3.3V PW							87	
				88	+24V PW							88	
	B T O B		CTL CN705	1	Data	←					SD Card Security Card NETWARE OP IPDS OP	1	
				2	Command	←						2	
				3	GND							3	
				4	PW							4	
				5	CLK	→						5	
				6	GND							6	
				7	Data	←						7	
				8	Data	←						8	
				9	Data	←						9	
	B T O B		CTL CN706	1	Data	←					SD Card SD Card for Storage VM Card (NA) VM Card (NA)	1	
				2	Command	←						2	
				3	GND							3	
				4	PW							4	
				5	CLK	→						5	
				6	GND							6	
				7	Data	←						7	
				8	Data	←						8	
				9	Data	←						9	
	External I/F		CTL CN707	1	RX Data(+)	←					10/100 NETWORK	1	
				2	RX Data(-)	←						2	
				3	RCT							3	
				4	TCT							4	
				5	TX Data(+)	→						5	
				6	TX Data(-)	→						6	
				7	NC							7	
				8	FG							8	
	External I/F		CTL CN708	1	+5VE PW						USB DEVICE	1	
				2	Data-	←						2	
				3	Data+	←						3	
				4	GND							4	
	External I/F		CTL CN709	1	+5VE PW						USB HOST	1	
				2	Data-	←						2	
				3	Data+	←						3	
				4	GND							4	
	B T O B		CTL CN710	1	+5VE PW			Energy Saver			HDD	1	
				2	+5VE PW			Energy Saver				2	
				3	Reserve							3	
				4	FAN Control Signal	→		FAN ON				4	
				5	HDD Power Detect	←		HDD PW Detect				5	
				6	I2C Data							6	
				7	HDD Buffer Direction	→	HDD→CTL	CTL→HDD				7	
				8	HDD DataBus	←						8	
				9	HDD DataBus	←						9	
				10	HDD DataBus	←						10	
				11	HDD DataBus	←						11	
				12	HDD DataBus	←						12	
				13	HDD DataBus	←						13	
				14	HDD DataBus	←						14	
				15	HDD DataBus	←						15	
				16	HDD DataBus	←						16	
				17	HDD DataBus	←						17	
				18	HDD DataBus	←						18	
				19	HDD Write Signal	→						19	
				20	HDD Read Signal	→						20	
				21	HDD Acknowledge	→						21	
				22	Interrupt Request	→						22	
				23	HDD Address Bus	→						23	
				24	HDD Address Bus	→						24	
				25	Chip Select 1	→						25	
				26	+5VE PW			Energy Saver				26	
				27	+5VE PW			Energy Saver				27	
				28	GND							28	
				29	HDD Control Signal	→	HDD PW ON	OFF				29	
				30	Power Control Signal	→	CTL PW ON	OFF				30	
				31	GND							31	
				32	I2C Clock	→						32	
				33	HDD Reset Signal	→						33	
				34	HDD Data Bus	←						34	
				35	GND							35	
				36	HDD Data Bus	←						36	
				37	GND							37	
				38	HDD Data Bus	←						38	
				39	NC							39	
				40	HDD Data Bus	←						40	
				41	GND							41	
				42	HDD Data Bus	←						42	
				43	GND							43	
				44	HDD Data Request	←						44	
				45	NC							45	
				46	HDD IO Ready	←						46	
				47	GND							47	
				48	HDD Address Bus	→						48	
				49	GND							49	
				50	Chip Select 0	→						50	
		CTL CN711	1	+5VEPW			Energy Saver			Debug	1		
			2	Serial GND							2		
			3	Serial GND							3		
			4	TX Data 0	→						4		
			5	RX Data 0	←						5		
			6	TX Data 1	→						6		
			7	RX Data 1	←						7		
		CTL CN714	1	+5VE PW			Energy Saver			Debug	1		
			2	RX Data 0	←						2		
			3	TX Data 0	→						3		
			4	Signal GND							4		

M075 ELECTRICAL COMPONENT LAYOUT



Symbol	Name	Index No.	P to P
Motors			
M1	LSU Fan Motor	F1-1	3E
M2	Fusing Fan Motor	F1-10	3E
M3	Color AIO Motor	F2-18	4E
M4	Black AIO Motor	F2-17	5E
M5	Transport/Fusing	F2-11	5E
M6	Polygon Motor	F2-5	4B
M7	ITB Contact Motor	F2-8	5B
M8	Agitator Motor	F2-9	5B
M9	Air Intake Fan	F1-4	6B

Symbol	Name	Index No.	P to P
Sensors			
S1	Tray Set Sensor	F3-6	8B
S2	Paper End Sensor	F3-5	7B
S3	Registration Sensor	F3-3	7B
S4	Paper Exit Sensor	F3-2	6B
S5	By-pass Paper End Sensor	F2-10	7B
S6	Duplex Sensor	F2-7	7B
S7	ITB Contact Sensor	F3-1	7B
S8	Temperature/Humidity Sensor	F1-5	6B
S9	Waste Toner Overflow Sensor	F3-8	9B
S10	Waste Toner Bottle Set Sensor	F3-7	9B

Symbol	Name	Index No.	P to P
Magnetic Clutches			
MC1	Paper Feed Clutch	F2-15	5E
MC2	Registration Clutch	F2-16	6E
MC3	Duplex Clutch	F2-12	7E
MC4	By-pass Clutch	F2-13	6E
Switches			
SW1	Main Switch	F1-12	8F
SW2	Interlock Switches	F1-14	9F
Solenoid			
SOL1	Paper Exit Solenoid	F2-6	2E
SOL2	By-pass Solenoid	F2-14	6E
Others			
L1	Fusing Lamp	F4-3	10G
TH1	Thermistors	F4-2	10G
TS1	Thermostat	F4-4	-

Symbol	Name	Index No.	P to P
PCBs			
PCB1	OPU Main Board	F1-7	1E
PCB2	ID Chip [B, Y, M, C]	F4-1	8B
PCB3	ID Chip Board	F1-11	9B
PCB4	TM Sensor Board	F2-1	3E
PCB5	PSU	F1-10	9E
PCB6	EGB	F1-2	6C
PCB7	Controller Board	F1-3	2C
PCB8	LD Board - C/M	F2-2	5B
PCB9	LD Board - K/Y	F2-3	4B
PCB10	Synchronizing Detector Board	F2-4	4B
PCB11	High Voltage Power Supply Board	F1-6	8A
PCB12	Key Board	F1-9	2F
PCB13	Eco Night Sensor	F1-8	2E

Symbol	Name	Index No.	P to P
Feed Unit (G849)			
Sensors			
S1	Paper End Sensor	F5-1	7E
S2	Realy Sensor	F5-2	7E
Magnetic Clutches			
MC1	Paper Feed Clutch	F5-4	7E
MC2	Relay Clutch	F5-3	7E