

D127/D128 POINT TO POINT DIAGRAM and HARNESS

A

B

C

D

E

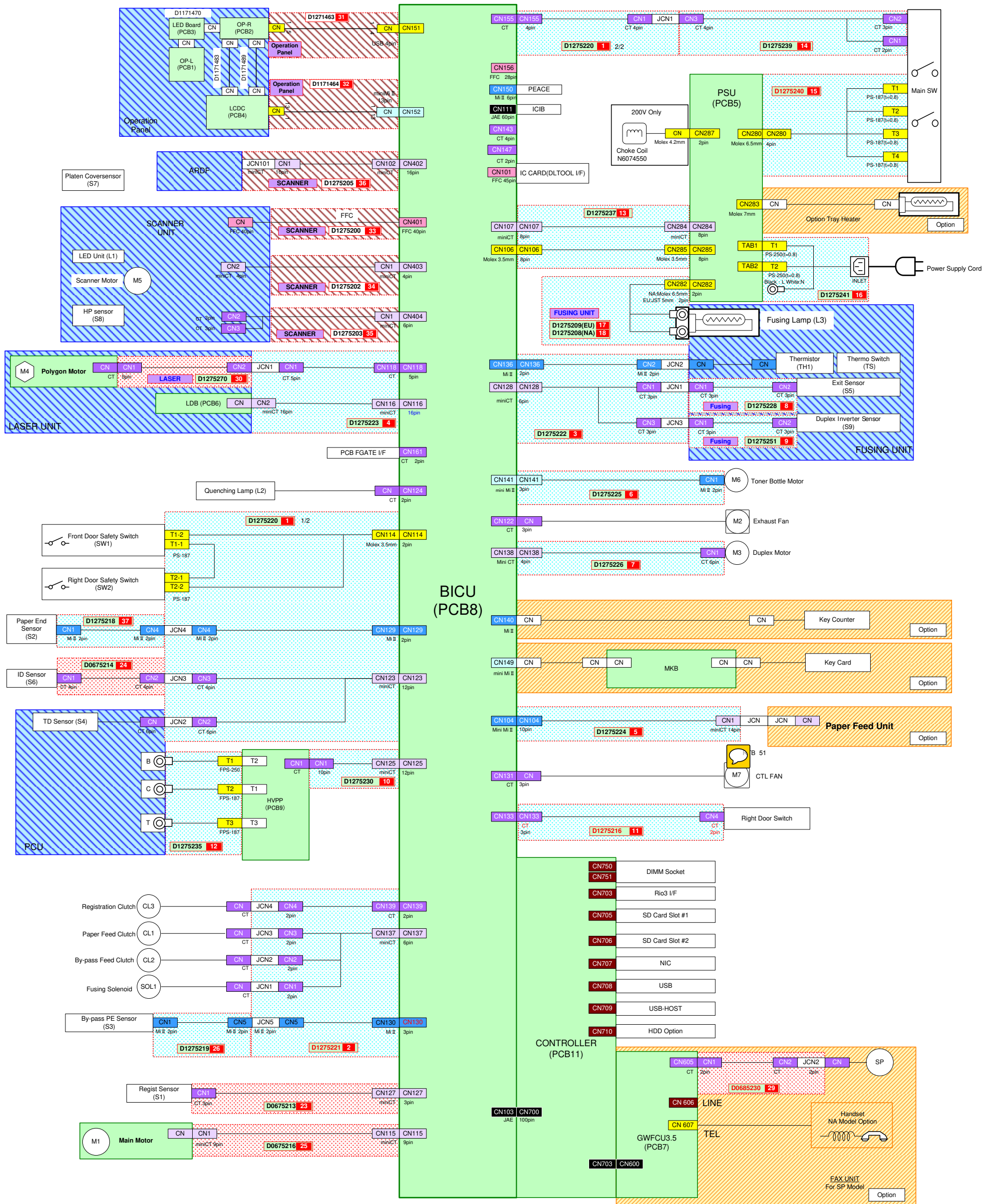
F

G

H

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J



D606 (ARDF) POINT TO POINT DIAGRAM

ADF Relay Borad (PCB1)

6P

Motor (-)	1
Motor (+)	2
+5V (Scanner)	3
GND	4
Encoder_B	5
Encoder_A	6

CN1

1

6

6

1

D6065213

CN2

JCN

CN



ARDF Drive Motor

16P

1	Reverse Switching Solenoid
2	Reverse Switching Solenoid_Feed
3	+24V
4	+24V
5	DFConnection Detection
6	Platen Cover Sensor
7	Original Set Sensor
8	+5VE (PONSENS)
9	GND
10	GND
11	Registration Sensor
12	+5V (Scanner)
13	Encoder_A
14	DCM motor (-)
15	Encoder_B
16	DCM motor (+)

D6065212



16

1



10P

Reverse Switching Solenoid	1
+24V	2
Reverse Switching Solenoid_Feed	3
+24V	4
GND	5
Platen Cover Sensor	6
+5V (Scanner)	7
GND	8
Original Set Sensor	9
+5VE (PONSENS)	10

CN4

1

10

2

1

D6065211

CN

JCN

CN



ARDF Pick-up Solenoid

3

1

D6065211

CN

JCN

CN



ARDF Reverse Solenoid

3

1

D6065211

CN

S1

ADF Cover Sensor

3

1

D6065211

CN

S2

Original Set Sensor

3P

DGND	1
Registration Sensor	2
+5V (Scanner)	3

CN3

1

3

D6065210

3

1

D6065210

CN301

S3

ARDF Registration Sensor

D127/D128 Harness Pin Assign

Harness No	Part No	FROM	J-CN	CN	Pin	Signal	Direction	Pin	CN	J-CN	TO
1	D127 5220	BICU CN114	-	CN114	1	+24VL	Power	T1	2	-	Interlock Dual Type
		BICU CN114	-	CN114	2	+24VS	←	T2	2	-	
		BICU CN123	-	CN123	1	N.C.	-	-	-	-	Total Counter
		BICU CN123	-	CN123	2	N.C.	-	-	-	-	T Sensor
		BICU CN123	-	CN123	3	N.C.	-	6	CN2	JCN 2	
		BICU CN123	-	CN123	4	GND	G	5	CN2	JCN 2	
		BICU CN123	-	CN123	5	FB TSNS	←	4	CN2	JCN 2	
		BICU CN123	-	CN123	6	+5V	Power	3	CN2	JCN 2	
		BICU CN123	-	CN123	7	PCU SET	←	2	CN2	JCN 2	
		BICU CN123	-	CN123	8	GND	G	1	CN2	JCN 2	
		BICU CN123	-	CN123	9	FB PSNS	←	4	CN3	JCN3	【24】D0675214 CN2
		BICU CN123	-	CN123	10	PSNS_LED	→	3	CN3	JCN3	
		BICU CN123	-	CN123	11	GND	G	2	CN3	JCN3	
		BICU CN123	-	CN123	12	+5V	Power	1	CN3	JCN3	
		BICU CN129	-	CN129	1	GND	G	2	CN4	JCN4	【37】D1275218 CN4
		BICU CN129	-	CN129	2	F1 PE	←	1	CN4	JCN4	
		BICU CN155	-	CN155	1	REON_DC_N_	→	4	CN1	JCN1	【14】D1275239 CN3
		BICU CN155	-	CN155	2	+5VE	PO	3	CN1	JCN1	
		BICU CN155	-	CN155	3	ACSWON_N	←	2	CN1	JCN1	
		BICU CN155	-	CN155	4	GND	G	1	CN1	JCN1	
2	D127 5221	BICU CN137	-	CN137	1	+24VS	Power	2	CN1	JCN1	Fusing Solenoid
		BICU CN137	-	CN137	2	FU_SOL_N	→	1	CN1	JCN1	Bypass Feed CL
		BICU CN137	-	CN137	3	+24VS	Power	2	CN2	JCN2	
		BICU CN137	-	CN137	4	MU_CL	→	1	CN2	JCN2	Paper Feed CL
		BICU CN137	-	CN137	5	+24VS	Power	2	CN3	JCN3	
		BICU CN137	-	CN137	6	F1_FDCL	→	1	CN3	JCN3	Paper Regist CL
		BICU CN139	-	CN139	1	+24VS	Power	2	CN4	JCN4	
		BICU CN139	-	CN139	2	REG_CL	→	1	CN4	JCN4	【26】D1275219 CN5
		BICU CN130	-	CN130	1	GND	G	2	CN5	JCN5	
		BICU CN130	-	CN130	2	N.C.	-	-	CN5	JCN5	
3	D127 5222	BICU CN136	-	CN136	1	+3.3V	Power	2	CN2	JCN2	Fusing Thermistor
		BICU CN136	-	CN136	2	FB_HEAT	←	1	CN2	JCN2	【8】D1275228 CN1
		BICU CN128	-	CN128	1	GND	G	3	CN1	JCN1	
		BICU CN128	-	CN128	2	EXIT_SNS_N	←	2	CN1	JCN1	
		BICU CN128	-	CN128	3	+5V	Power	1	CN1	JCN1	【9】D1275251 CN2
		BICU CN128	-	CN128	4	GND	G	3	CN3	JCN3	
		BICU CN128	-	CN128	5	DSIDE_SNS_N	←	2	CN3	JCN3	
4	D127 5223	BICU CN116	-	CN116	6	+5V	Power	1	CN3	JCN3	LDB CN
		BICU CN116	-	CN116	1	LDD2_N	→	16	CN2	-	
		BICU CN116	-	CN116	2	LDD2	→	15	CN2	-	
		BICU CN116	-	CN116	3	+5VS	Power	14	CN2	-	
		BICU CN116	-	CN116	4	+5VS	Power	13	CN2	-	
		BICU CN116	-	CN116	5	LDD1_N	→	12	CN2	-	
		BICU CN116	-	CN116	6	LDD1	→	11	CN2	-	
		BICU CN116	-	CN116	7	DETP_N	←	10	CN2	-	
		BICU CN116	-	CN116	8	VDERR	←	9	CN2	-	
		BICU CN116	-	CN116	9	LDERR_N	←	8	CN2	-	
		BICU CN116	-	CN116	10	LDOFF	→	7	CN2	-	
		BICU CN116	-	CN116	11	APCEN1_N	→	6	CN2	-	
		BICU CN116	-	CN116	12	GND	G	5	CN2	-	
		BICU CN116	-	CN116	13	LDLVL1	→	4	CN2	-	
		BICU CN116	-	CN116	14	GND	G	3	CN2	-	
		BICU CN116	-	CN116	15	LDLVL2	→	2	CN2	-	
		BICU CN116	-	CN116	16	APCEN2_N	→	1	CN2	-	
		BICU CN118	-	CN118	1	+24V	Power	5	CN1	JCN1	【30】D1275270 CN2
		BICU CN118	-	CN118	2	GND	G	4	CN1	JCN1	
		BICU CN118	-	CN118	3	PMON_N	→	3	CN1	JCN1	
		BICU CN118	-	CN118	4	PMRDY_N	←	2	CN1	JCN1	
		BICU CN118	-	CN118	5	PMCLK	→	1	CN1	JCN1	

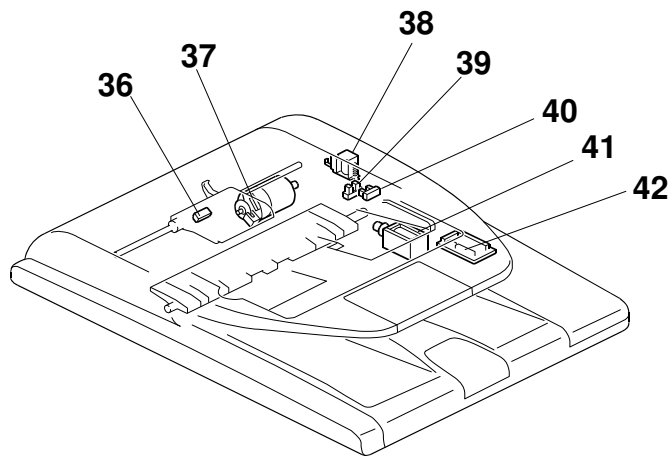
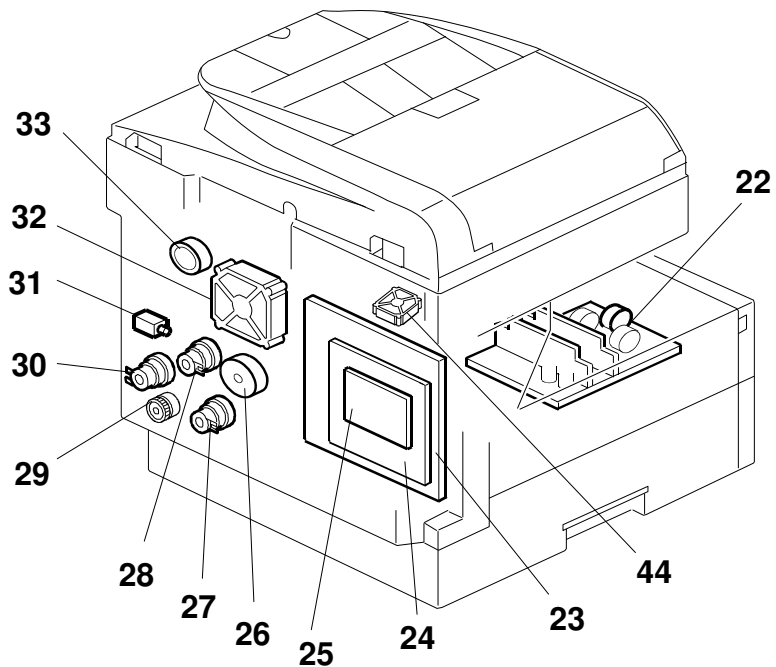
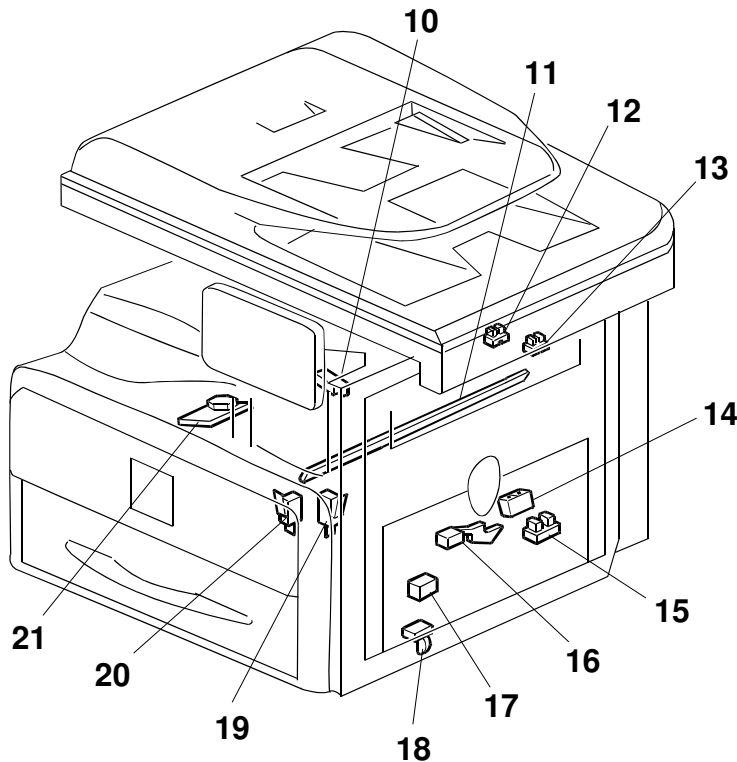
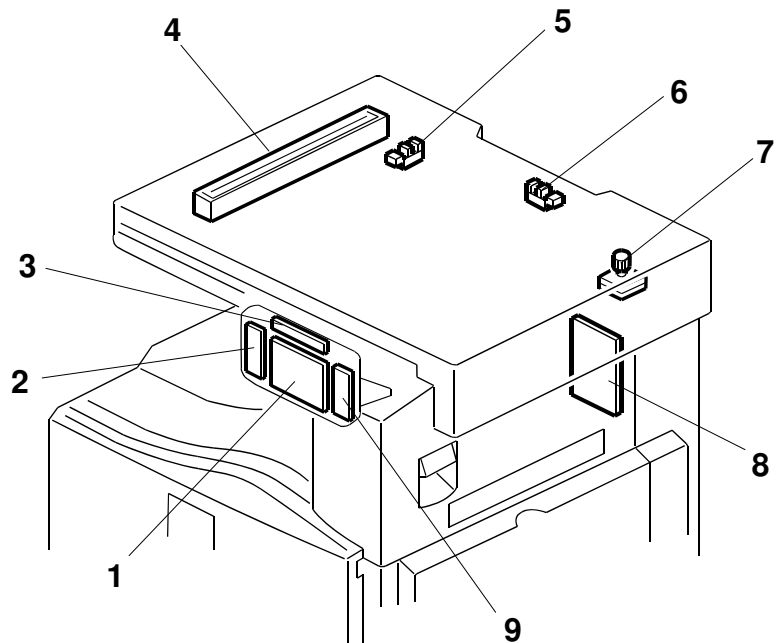
Harness No	Part No	FROM	J-CN	CN	Pin	Signal	Direction	Pin	CN	J-CN	TO
5	D127 5224	BICU CN104	-	CN104	1	PFU_RXD	←	14	CN1	-	PFU JCN
					2	PFU_TXD	→	13			
					3	GND	G	12			
					4	+5V	Power	11			
					5	GND	G	10			
					6	GND	G	9			
					7	GND	G	8			
					8	+24V	Power	7			
					9	+24V	Power	6			
					10	+24V	Power	5			
					-	N.C.	-	4			
					-	N.C.	-	3			
					-	N.C.	-	2			
					-	N.C.	-	1			
6	D127 5225	BICU CN141	-	CN141	1	TBMT_ON_N	→	2	CN1	-	Toner Bottle Motor
					2	N.C.	-	-			
					3	+24VS	Power	1			
7	D127 5226	BICU CN138	-	CN138	1	DUMT_BN	→	6	CN1	-	Duplex Motor
					-	NC	-	5			
					2	DUMT_B	→	4			
					3	DUMT_AN	→	3			
					-	NC	-	2			
					4	DUMT_A	→	1			
8	D127 5228	【3】 D1275222 JCN1	-	CN1	1	GND	G	3	CN2	-	Paper Exit Sensor
					2	EXIT_SNS_N	←	2			
					3	+5V	Power	1			
9	D127 5251	【3】 D1275222 JCN3	-	CN1	1	GND	G	3	CN2	-	Junction Sensor
					2	DSIDE_SNS_N	←	2			
					3	+5V	Power	1			
10	D127 5230	BICU CN125	-	CN125	1	N.C.	-	-	CN1	-	HVPP CN1
					2	N.C.	-	-			
					3	FB_VTP	←	10			
					4	HVP_SC_T_N	←	9			
					5	HVP_SC_B_N	←	8			
					6	HVP_SC_C_N	←	7			
					7	PWM_TM	→	6			
					8	PWM_TP	→	5			
					9	PWM_B	→	4			
					10	PWM_C	→	3			
					11	GND	G	2			
					12	+24VS	Power	1			
11	D127 5216	BICU CN133	-	CN133	1	N.C.	-	-	CN4	-	Right Door Detect Sensor
					2	ELEFAN_LOCK	←	2			
					3	GND	G	1			
12	D127 5235	HVP T2	-	T1	Development		←	T4	-	PCU B	
		HVP T1	-	T2	Charger		←	T5	-	PCU C	
		HVP T3	-	T3	Transfer		←	T6	-	PCU T	

Harness No	Part No	FROM	J-CN	CN	Pin	Signal	Direction	Pin	CN	J-CN	TO				
13	D127 5237	BICU CN107	-	CN107	1	N.C.	-	8	CN284	-	PSU CN284				
					2	ZEROX	←	7							
					3	FUHT_ON	→	6							
					4	RY_ON_N	→	5							
					5	PONENG_N_PSU	→	4							
					6	GND	G	3							
					7	+24V_ON	Power	2							
					8	+24VSRLY	Power	1							
		BICU CN106	-	CN106	1	+24V	Power	1	CN285	-	PSU CN285				
					2	+24V	Power	2							
					3	GND	G	3							
					4	GND	G	4							
					5	GND	G	5							
					6	+5V	Power	6							
					7	+5VE	Power	7							
					8	+5VE	Power	8							
14	D127 5239	【1】D1275220 JCN1	-	CN3	1	REON_DC_N	→	2	CN1	-	SDSW (Sub)				
					2	+5VE	PO	1							
					3	ACSWON_N	←	3	CN2	-	SDSW (Sub)				
					-	N.C.	-	2							
					4	GND	G	1							
15	D127 5240	PSU CN280	-	CN280	1	AC-L	Power	T1		-	SDSW (Main)				
					2	AC-N	Power	T2							
					3	AC-L-ON	Power	T3							
					4	AC-N-ON	Power	T4							
16	D127 5241	PSU Tab1	-	-	T1	L	Power	INLET-L		-	Power Supply Cord				
		PSU Tab2	-	-	T2	N	Power	INLET-N							
		Metal Plate	-	-	T3	EARTH	G	INLET-E							
17	D127 5209	PSU CN282	-	CN282	1	MHT-L(HT1_L)	Power	T1	-	-	Fusing Lamp				
18	D127 5208	PSU CN282	-	CN282	2	MHT-N(HT1_N)	Power	T2	-	-	Fusing Lamp				
					1	MHT-L(HT1_L)	Power	T1	-	-					
23	D067 5213	BICU CN127	-	CN127	1	GND	G	3	CN1	-	Regist Sensor				
					2	REG_SNS_N	←	2							
					3	+5V	Power	1							
24	D067 5214	【1】D1275220 JCN3	-	CN2	1	FB_PSNS	←	4	CN1	-	ID Sensor				
					2	PSNS_LED	→	3							
					3	GND	G	2							
					4	+5V	Power	1							
25	D067 5216	BICU CN115	-	CN115	1	MT_CLK	→	9	CN1	-	Main Motor				
					2	MT_BK	→	8							
					3	MT_DR	→	7							
					4	MT_ST	→	6							
					5	MT_LOCK	←	5							
					6	GND	G	4							
					7	GND	G	3							
					8	+24VS	Power	2							
					9	+24VS	Power	1							
26	D129 5219	【2】D1295221 CN5	JCN5	CN5	1	GND	G	2	CN	-	By-pass Feed PE Sensor				
					2	MU_PE	←	1							
29	D068 5230	GWFCU3 CN605	-	CN1	1	MONSP	→	2	CN2	JCN2	SP				
					2	GND	G	1							
30	D127 5270	【4】D1275223 JCN1	-	CN2	1	+24V	Power	5	CN1	-	Polygon Motor				
					2	GND	G	4							
					3	PMON_N	→	3							
					4	PMRDY_N	←	2							
					5	PMCLK	→	1							
31	D127 1485	BICU CN151	-	-	1	+5VE_LPS	Power	1	CN6	-	Operation Panel				
					2	OPE_USB_M	←/→	2							
					3	OPE_USB_P	←/→	3							
					4	GND	G	4							

Harness No	Part No	FROM	J-CN	CN	Pin	Signal	Direction	Pin	CN	J-CN	TO
32	D127 1486	BICU CN152	-	-	1	GND	G	13	CN2	JCN2	Operation Panel
					2	GND	G	12			
					3	POKLVDS	→	11			
					4	LDET_IN_N_OPU	←	10			
					5	ENG_ENABLE_N_OP	→	9			
					6	PONENG_N_OPU	→	8			
					7	PW_SW_N	←	7			
					8	POKUSB	→	6			
					9	OPE_CTLERR_N_OP	→	5			
					10	+5VE_LPS	Power	4			
					11	+5VE_LPS	Power	3			
					12	+5VE_LPS	Power	2			
					13	+24V	Power	1			
33	D127 5200	BICU CN401	-	-	1	GND	G	40	-	-	Scanner Unit
					2	GND	G	39			
					3	+24V	Power	38			
					4	+24V	Power	37			
					5	+5V_SCN	Power	36			
					6	+5V_SCN	Power	35			
					7	GND	G	34			
					8	VIDEO_R	←	33			
					9	GND	G	32			
					10	VIDEO_G	←	31			
					11	GND	G	30			
					12	VIDEO_B	←	29			
					13	GND	G	28			
					14	+3.3V	Power	27			
					15	+3.3V	Power	26			
					16	XSW	→	25			
					17	GND	G	24			
					18	XCP-	→	23			
					19	XCP+	→	22			
					20	GND	G	21			
					21	XRS+	→	20			
					22	XRS-	→	19			
					23	GND	G	18			
					24	XPH2-	→	17			
					25	XPH2+	→	16			
					26	GND	G	15			
					27	XPH1+	→	14			
					28	XPH1-	→	13			
					29	XCN_SBU	←	12			
					30	XSH	→	11			
					31	XSHC	→	10			
					32	CCD_ON	→	9			
					33	+24V	Power	8			
					34	+24V	Power	7			
					35	LED_CTL5	←	6			
					36	LED_CTL4	←	5			
					37	LED_CTL3	←	4			
					38	LED_CTL2	←	3			
					39	LED_CTL1	←	2			
					40	GND	G	1			
34	D127 5202	BICU CN403	-	CN1	1	FB_B	←/→	4	CN2	-	Scanner Unit
					2	FB_A	←/→	3			
					3	FB_B	←/→	2			
					4	FB_A	←/→	1			
35	D127 5203	BICU CN404	-	CN1	1	GND	G	3	CN3	-	Scanner Unit
					2	XAKS_SENS	←	2			
					3	+5VE_Z	Power	1			
					4	GND	G	3	CN2	-	Scanner Unit
					5	HPS_SENS	←	2			
					6	+5V_SCN	Power	1			

Harness No	Part No	FROM	J-CN	CN	Pin	Signal	Direction	Pin	CN	J-CN	TO
36	D127 5205	BICU CN402	-	CN102	1	REV_SOL	←	16	CN1	CN10	ARDF
					2	FEED_SOL	←	15			
					3	+24V	Power	14			
					4	+24V	Power	13			
					5	XDF_SET	←	12			
					6	XCOV_SENS	←	11			
					7	XDOC_SENS	←	10			
					8	+5VE_Z	Power	9			
					9	GND	G	8			
					10	GND	G	7			
					11	XREG_SENS	←	6			
					12	+5V_SCN	Power	5			
					13	ENC_A	←	4			
					14	OUT1_B	←/→	3			
					15	ENC_B	←	2			
					16	OUT1_A	←/→	1			
37	D127 5218	【1】D1275220 JCN4	-	CN4	1	GND	G	2	CN1	-	PE Sensor
					2	F1_PE	←	1			

D127/D128 ELECTRICAL COMPONENT LAYOUT



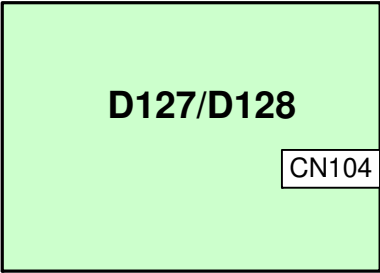
Symbol	Index No.	Name	P-to-P
Sensors			
S1	15	Registration	I-2
S2	16	Paper End	F-1
S3	18	By-pass Paper End	H-1
S4	17	TD (Toner Density)	F-1
S5	12	Paper Exit	D-56
S6	14	ID (Image Density)	F-1
S7	6	Platen Cover	C-1
S8	5	Scanner HP	D-1
S9	13	Duplex Inverter	D-56
Switches			
SW1	20	Front Door Safety	E-1
SW2	19	Right Door Safety	E-1
PCBs			
PCB1	2	Operation Panel L	B-2
PCB2	9	Operation Panel R	B-2
PCB3	3	LED Board	B-2
PCB4	1	LCDC	B-2
PCB5	22	PSU	BC-5
PCB6	10	LD Unit	D-2
PCB7	25	FCU	IJ-45
PCB8	23	BICU	BJ-34
PCB9	8	HVPP	G-2
PCB11	24	Controller	HI-4
Lamps			
L1	4	LED Unit	C-1
L2	11	Quenching (LED)	E-2
L3	35	Fusing	D-5

Symbol	Index No.	Name	P-to-P
Motors			
M1	26	Main	I-1
M2	32	Exhaust Fan	E-5
M3	33	Duplex	E-5
M4	21	Polygon Mirror	D-1
M5	7	Scanner	C-1
M6	29	Toner Bottle Motor	E-5
M7	44	CTL Fan	G-5
Clutches			
CL1	27	Paper Feed	H-1
CL2	30	Bypass Feed	H-1
CL3	28	Registration	H-1
Others			
TH1	43	Thermistor	D-5
SOL1	31	Fusing Solenoid	H-1
TS	34	Thermo Switch	D-5

Symbol	Index No.	Name	P-to-P
ARDF (Option for D127EU)			
S1	40	ARDF Cover	E-8
S2	39	Original Set	E-8
S3	36	ARDF Registration	F-8
SOL1	38	Pick-up Solenoid	D-9
SOL2	41	Reverse Solenoid	D-9
PCB1	42	ARDF Relay	BF-36
M1	37	ARDF Drive	C-9

D661 (PFU) POINT TO POINT DIAGRAM and HARNESS

A



CN104 CN104

CN200

Connector
CN210

CN200

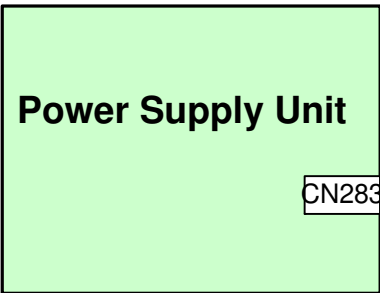
CN100

CN100

1

D6615300

B



CN283 CN1

CN2

CN3

CN4

6

D6615350

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D6615370



Anticondensation Heater (Option)

C



CN100

CN100

CN200

Connector
CN211

CN201

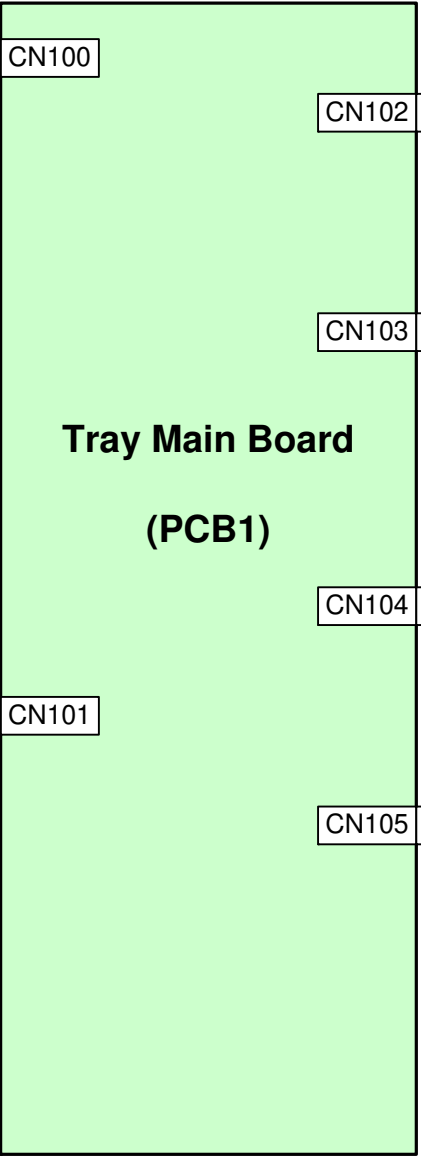
CN101

CN101

2

D6615310

D



CN102

CN102

CN220

M1

Paper Feed Motor

3

D6615320

CN103

CN103

CN230

JCN230

CN

CL

Paper Feed Clutch

4

D6615330

CN104

CN104



Fan Motor (M2)

CN105

CN105

CN250

Paper Feed Sensor (S1)

CN251

Paper End Sensor (S2)

CN252

Door Switch (SW1)

5

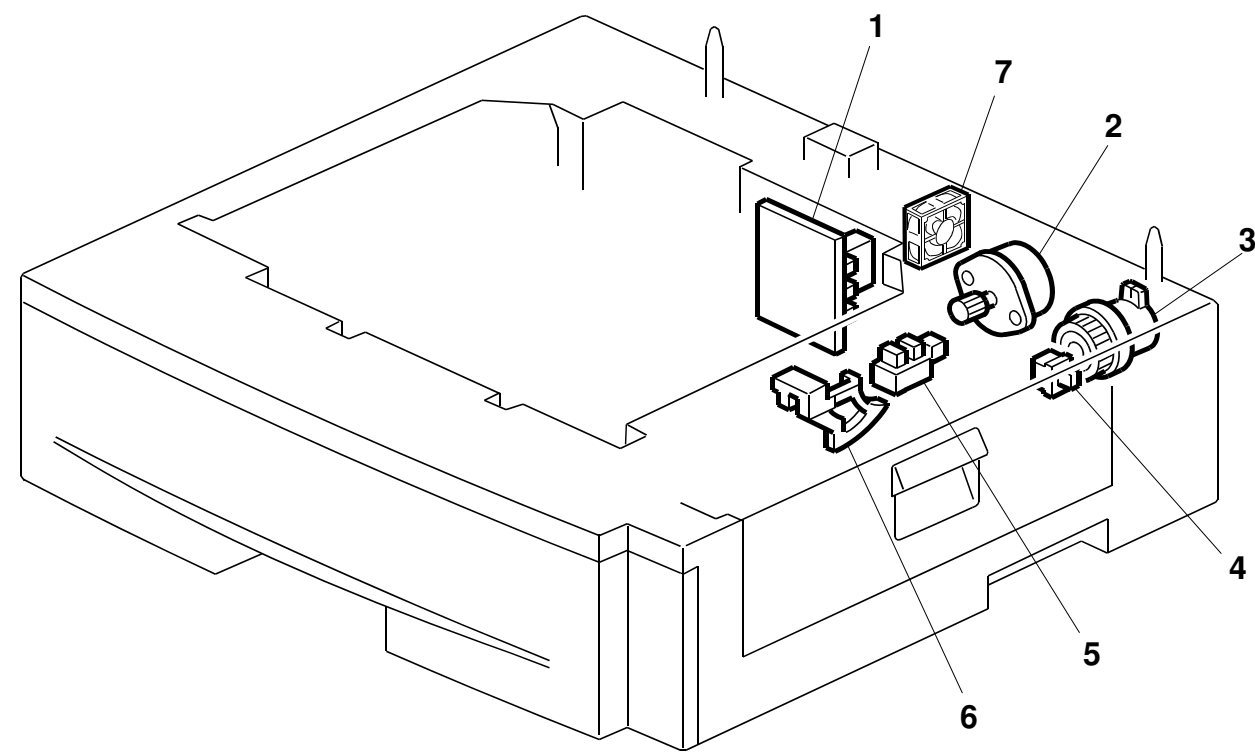
D6615340

E

D661 Harness Pin Assign

Harness No	Part No	FROM			Signal Direction	TO		
		CN	Unit/CN	Pin No		CN	Unit/CN	Pin No
1	D6615300	CN100	Main PCB CN100	10	TXD2→	CN200	D127/D128 CN104	1
				9	←RXD2			2
				8	S_GND			3
				7	+5V			4
				6	P_GND			5
				5				6
				4				7
				3	+24V			8
				2				9
				1				10
2	D6615310	CN101	Main PCB CN101	1	←LP_RXD3	CN201	Lower Paper Tray Unit CN100	14
				2	LP_TXD3→			13
				3	S_GND			12
				4	+5V			11
				5	P_GND			10
				6				9
				7				8
				8	+24V			7
				9				6
				10				5
3	D6615320	CN102	Main PCB CN102	1	PFM_A	CN220	Paper Feed Motor	5
				2	PFM +24V			4
				3	PFM_AB			3
				4	PFM B			2
				6	PFM_BB			1
4	D6615330	CN103	Main PCB CN103	1	+24V	CN230	Paper Feed Clutch	2
				2	FEED CL			1
		CN104	Main PCB CN104	1	+24V		Fan Motor	
				2	N.C.			
				3	FAN_M			
5	D6615340	CN105	Main PCB CN105	1	S_GND	CN250	Paper Feed Sensor	3
				2	PF_SIGNAL			2
				3	+5V			1
				4	S_GND	CN251	Paper End Sensor	3
				5	PE_SIGNAL			2
				6	+5V	CN252	Door Switch	1
				7	S_GND			2
				8	DS_SIGNAL			1
6	D6615350	CN1	PSU CN283	1	HEATER(L)	CN2	Anticondensation Heater (Option)	1
				2	HEATER(N)			2

D661 ELECTRICAL COMPONENT LAYOUT



Symbol	Index No.	Name	P-to-P
PFU (Option)			
PCB1	1	Tray Main Board	CDB-3
M1	2	Paper Feed Motor	B-4
M2	7	FAN Motor	C-4
CL1	3	Paper Feed Clutch	B-4
S1	5	Paper Feed Sensor	D-4
S2	6	Paper End Sensor	D-4
SW1	4	Door Switch	D-4