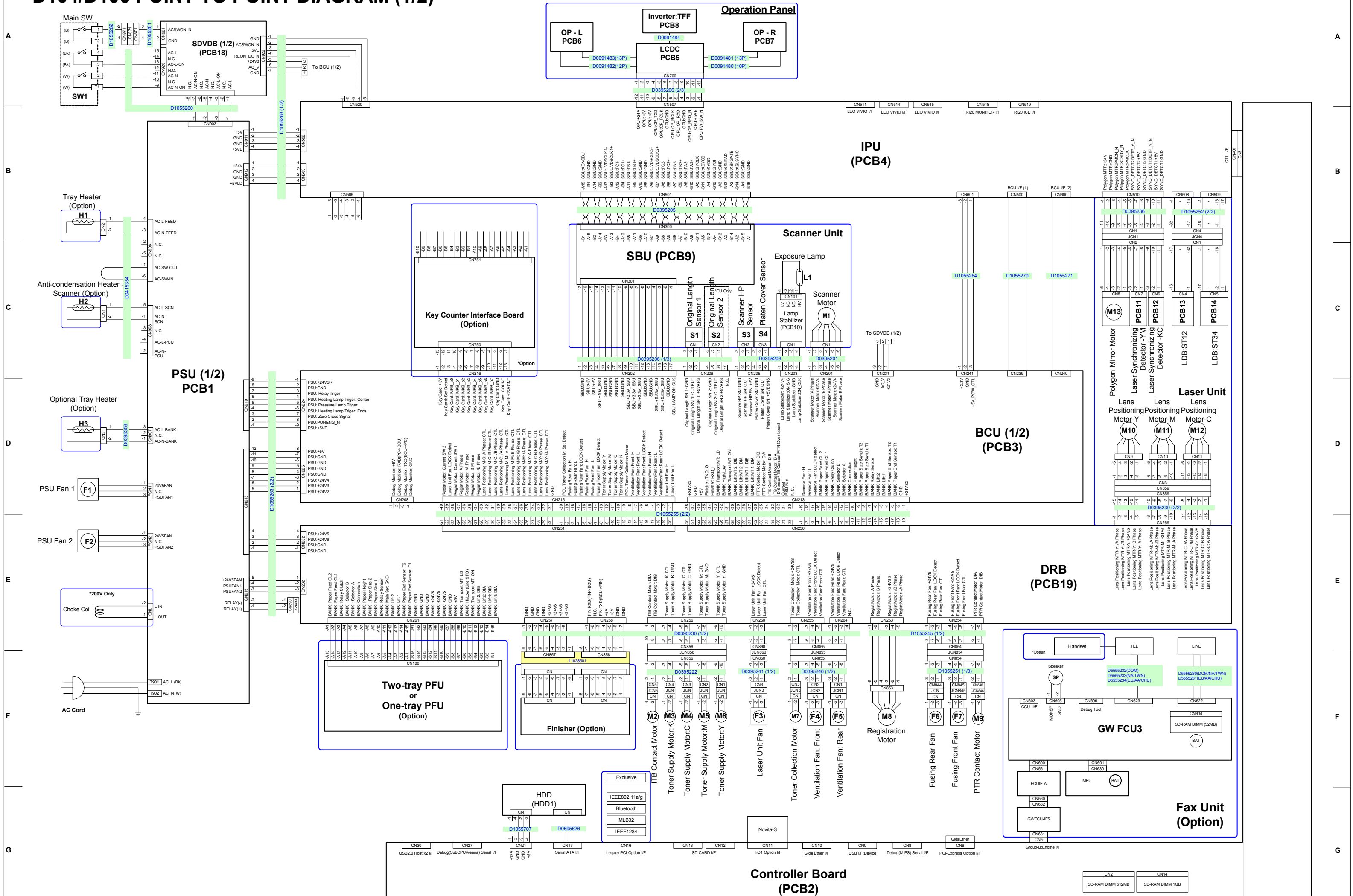
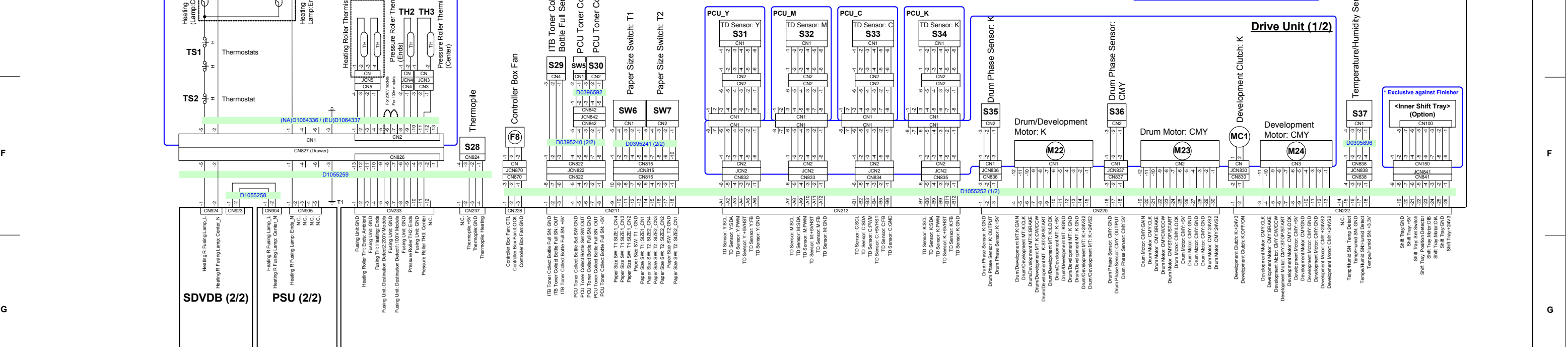
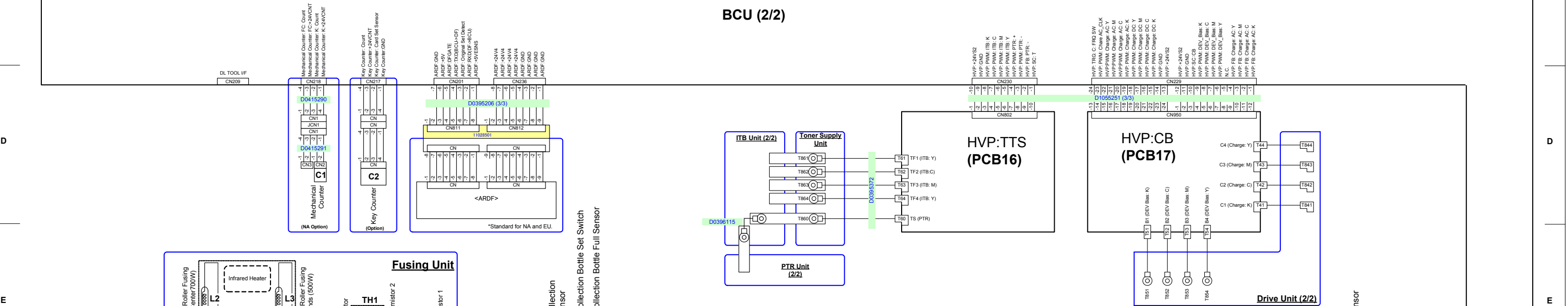
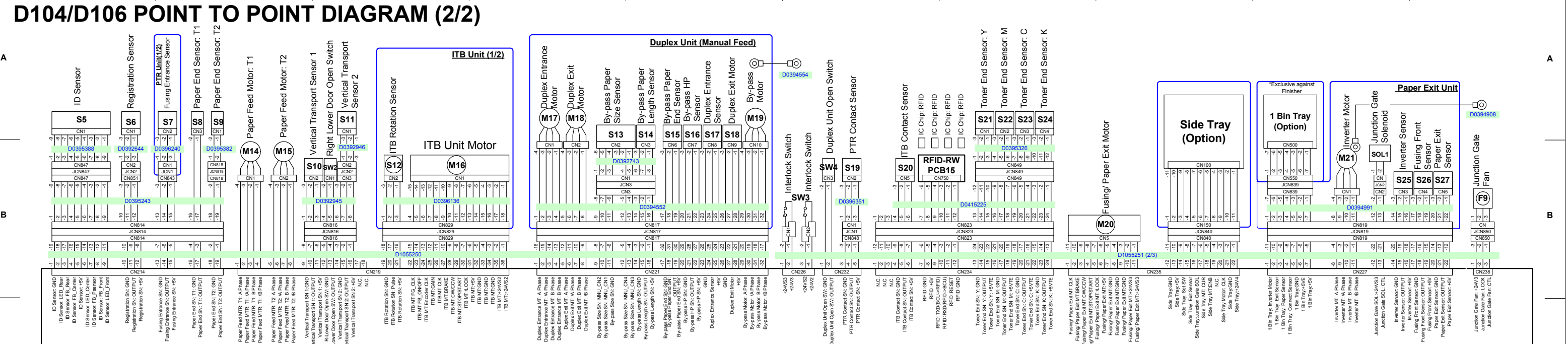


D104/D106 POINT TO POINT DIAGRAM (1/2)



1	2	3	4	5	6	7	8	9	10
---	---	---	---	---	---	---	---	---	----



Pin Assignment Lists

CTL

CTL(DIMM)

No.	Signal	No.	Signal	No.	Signal	No.	Signal
1	VREF	51	DQS2	101	A1	151	DQ42
2	VSS	52	DM2	102	A0	152	DQ48
3	VSS	53	VSS	103	VDD	153	DQ43
4	DQ4	54	VSS	104	VDD	154	DQ47
5	DQ0	55	DQ18	105	A10/AP	155	VSS
6	DQ6	56	DQ22	106	BA1	156	VSS
7	DQ1	57	DQ19	107	BA0	157	DQ48
8	VSS	58	DQ23	108	RAS	158	DQ52
9	VSS	59	DQ29	109	WE	159	DQ49
10	DM0	60	VSS	110	S0	160	DQ53
11	DQ36	61	DQ34	111	VDD	161	VSS
12	VSS	62	DQ28	112	VDD	162	VSS
13	DQ50	63	DQ25	113	CAS	163	NC TEST
14	DQ8	64	DQ29	114	DQ10	164	CK1
15	VSS	65	VSS	115	NP2/S1	165	VSS
16	DQ7	66	VSS	116	NC/A13	166	CK1
17	DQ2	67	DQ3	117	VDD	167	DQ56
18	VSS	68	DQ53	118	VDD	168	VSS
19	DQ3	69	NC / RESET#	119	NC / DQ11	169	DQ58
20	DQ12	70	DQ53	120	NC / S0#	170	DM6
21	VSS	71	VSS	121	VSS	171	VSS
22	DQ13	72	VSS	122	VSS	172	VSS
23	DQ8	73	DQ28	123	DQ32	173	DQ50
24	VSS	74	DQ30	124	DQ36	174	DQ54
25	DQ9	75	DQ27	125	DQ33	175	DQ51
26	DM1	76	DM1	126	DQ27	176	DQ55
27	VSS	77	VSS	127	VSS	177	VSS
28	VSS	78	VSS	128	VSS	178	VSS
29	DQ31	79	CKE0	129	DQ34	179	DQ56
30	CK0	80	NC / CKE1	130	DM4	180	DQ60
31	DQ31	81	VDD	131	DQ34	181	DQ57
32	CK0	82	VSS	132	VSS	182	DQ59
33	VSS	83	NC / S2#	133	VSS	183	VSS
34	VSS	84	NC / A15	134	DQ38	184	VSS
35	DQ10	85	NC/BA2	135	DQ34	185	DM7
36	DQ14	86	NC / A14	136	DQ39	186	DQ57
37	DQ11	87	DQ11	137	DQ38	187	VSS
38	DQ15	88	VDD	138	VSS	188	DQ57
39	VSS	89	A12	139	VSS	189	DQ58
40	VSS	90	A11	140	A14	190	VSS
41	VSS	91	A9	141	DQ40	191	DQ59
42	VSS	92	A7	142	DQ45	192	DQ62
43	DQ16	93	A6	143	DQ41	193	VSS
44	DQ20	94	A6	144	VSS	194	DQ63
45	DQ17	95	DQ17	145	VSS	195	S04
46	DQ21	96	VDD	146	DQ55	196	VSS
47	VSS	97	A5	147	DM5	197	SC1
48	VSS	98	A4	148	DQ56	198	S40
49	DQ52	99	A3	149	VSS	199	VDDSPD
50	Event	100	A2	150	VSS	200	SA1

CTL(FAX)

No.	Signal	No.	Signal	No.	Signal	No.	Signal
1	+5VE	81	PCIA058	101	+5VE	151	PCIA059
2	+5VE	82	PCIA058	102	+5VE	152	PCIA057
3	+5VE	83	GND	103	+5VE	153	GND
4	+5VE	84	PCIA054	104	+5VE	154	PCIA055
5	+5VE	85	PCIA052	105	+5VE	155	PCIA053
6	+5VE	86	PCIA056	106	+5VE	156	PCIA051
7	+5VE	87	PCIA048	107	+5VE	157	PCIA049
8	+5V	88	GND	108	+5VE	158	GND
9	INT#	89	PCIA046	109	INT#	159	PCIA047
10	INT#	90	PCIA044	110	INT#	160	PCIA045
11	RECQ#	91	PCIA042	111	RECQ#	161	PCIA043
12	GNTR#	92	PCIA040	112	GNTR#	162	PCIA041
13	RECQ1#	93	GND	113	RECQ2#	163	GND
14	GNTR#	94	PCIA038	114	GNTR#	164	PCIA039
15	GND	95	PCIA036	115	GND	165	PCIA037
16	PCIA030	96	PCIA034	116	PCIA031	166	PCIA035
17	PCIA028	97	PCIA032	117	PCIA029	167	PCIA033
18	PCIA026	98	GND	118	PCIA027	168	GND
19	PCIA024	99	PETX0	119	PCIA025	169	PERX0
20	GND	100	PONSENSE/SDLED	120	GND	170	RSV0/NC1
21	PCIA022	101	OP2_TOLK/OP0_CLK	121	PCIA023	171	OP2_RCLK
22	PCIA020	102	OP2_TXD/OP0_TXD	122	PCIA021	172	OP2_RXD/OP0_RXD
23	PCIA018	103	OP2_REV	123	PCIA019	173	SD_CW0/OP0_RXD
24	PCIA016	104	RSV0/NC1	124	PCIA017	174	SD_DDIR
25	GND	105	SD_DIT_EN#	125	GND	175	ACSW0/NC2
26	CBE2#	106	SD_CMD_EN#	126	CBE3#	176	BE0N_OC#
27	CBE0#	107	GND	127	CBE1#	177	GND
28	PCIRST#	108	SDCLK	128	DT0	178	DT0
29	DEVSEL#	109	SDCMD#	129	TRDY#	179	SD_DT1
30	RDY#	110	SD_CMD	130	FRAME#	180	SD_DT2
31	PERB#	111	SDSWP	131	STP#	181	SD_DT3
32	PAR	112	GND	132	SERR#	182	GND
33	GND	113	OP4_CLK/OP0_CLK	133	GND	183	ENGDRDY#
34	PCIA014	114	OP4_CSW/OP0_TXD	134	PCIA015	184	PONCTL#
35	PCIA012	115	OP4_SDA/OP0_RXD	135	PCIA013	185	W_SW#
36	PCIA010	116	OP4_IRQ#	136	PCIA011	186	WKUP_L#
37	PCIA008	117	OP4_ONLINE_LED_ON#	137	PCIA009	187	WKUP_L#
38	GND	118	TIMER_UP#	138	GND	188	OP4_RST#
39	PCIA006	119	ENG_ENABLE#	139	PCIA007	189	OP4_RST#
40	PCIA004	120	PONENG#	140	PCIA005	190	VDET_FPC1
41	PCIA002	121	PONCEN#	141	PCIA003	191	PSAVE_FCU +3.3VE
42	PCIA000	122	PSAVE_FCU	142	PCIA001	192	PCIA001
43	GND	123	GND	143	GND	193	GND
44	GND	124	PCIA0K1	144	CBE2#	194	PCIA0K2
45	CBE4#	125	GND	145	CBE5#	195	GND
46	4BREQ#	126	PCICLK_E4	146	MACW#	196	TIMER_UP1#
47	4BREQ	127	GND	147	NC	197	NC
48	GND	128	+12V	148	GND	198	+12V
49	PCIA002	129	+12V	149	PCIA003	199	+12V
50	PCIA000	130	+12V	150	PCIA001	200	+12V

CTL (Debug(MIPS) Serial I/F)

No.	Signal
1	3.3VE/SVPEP
2	GND
3	GND
4	DB0TX0
5	DB0RX0
6	DB1TX0
7	DB1RX0
8	N.C.

CTL (USB)

No.	Signal
1	VBUS
2	D-
3	D+
4	GND

CTL (Giga Ether)

No.	Signal
1	NC
2	VCC
3	NC
4	NC
5	NC
6	NC
7	NC
8	NC
9	NC
10	NC
11	NC
12	NC
13	NC
14	NC
15	NC
16	NC
17	NC
18	NC
19	NC
20	NC
21	NC
22	NC
23	NC
24	NC
25	NC
26	NC
27	NC
28	NC
29	NC
30	NC

CTL (TIO1)

No.	Signal
1	GND
2	GND
3	GND
4	GND
5	GND
6	GND
7	GND
8	GND
9	GND
10	GND
11	GND
12	GND
13	GND
14	GND
15	GND
16	GND
17	GND
18	GND
19	GND
20	GND
21	GND
22	GND
23	GND
24	GND
25	GND
26	GND
27	GND
28	GND
29	GND
30	GND

CTL (SD CARD)

No.	Signal
1	NC
2	NC
3	NC
4	NC
5	NC
6	NC
7	NC
8	NC
9	NC
10	NC
11	NC
12	NC
13	NC
14	NC
15	NC
16	NC
17	NC
18	NC
19	NC
20	NC
21	NC
22	NC
23	NC
24	NC
25	NC
26	NC
27	NC
28	NC
29	NC
30	NC

CTL(RIO3)

No.	Signal	No.	Signal
1	GND	45	DEVSEL_N
2	GND	46	STOP_N
3	GND	47	GND
4	GND	48	reserved
5	GND	49	PER_N
6	GND	50	PAR
7	GND	51	GND
8	GND	52	PER_N
9	GND	53	AD1(15)
10	GND	54	AD1(14)
11	GND	55	AD1(13)
12	GND	56	AD1(12)
13	GND	57	AD1(11)
14	GND	58	AD1(10)
15	GND	59	AD1(9)
16	GND	60	AD1(8)
17	GND	61	AD1(7)
18	GND	62	AD1(6)
19	GND	63	AD1(5)
20	GND	64	AD1(4)
21	GND	65	AD1(3)
22	GND	66	AD1(2)
23	GND	67	AD1(1)
24	GND	68	AD1(0)
25	GND	69	AD1(0)
26	GND	70	AD1(0)
27	GND	71	AD1(0)
28	GND	72	AD1(0)
29	GND	73	AD1(0)
30	GND	74	AD1(0)
31	GND	75	AD1(0)
32	GND	76	AD1(0)
33	GND	77	AD1(0)
34	GND	78	AD1(0)
35	GND	79	AD1(0)
36	GND	80	AD1(0)
37	GND	81	AD1(0)
38	GND	82	AD1(0)
39	GND	83	AD1(0)
40	GND	84	AD1(0)
41	GND	85	AD1(0)
42	GND	86	AD1(0)
43	GND	87	AD1(0)
44	GND	88	AD1(0)
45	GND	89	AD1(0)
46	GND	90	AD1(0)
47	GND	91	AD1(0)
48	GND	92	AD1(0)
49	GND	93	AD1(0)
50	GND	94	AD1(0)
51	GND	95	AD1(0)
52	GND	96	AD1(0)
53	GND	97	AD1(0)
54	GND	98	AD1(0)
55	GND	99	AD1(0)
56	GND	100	AD1(0)
57	GND	101	AD1(0)
58	GND	102	AD1(0)
59	GND	103	AD1(0)
60	GND	104	AD1(0)
61	GND	105	AD1(0)
62	GND	106	AD1(0)
63	GND	107	AD1(0)
64	GND	108	AD1(0)
65	GND	109	AD1(0)
66	GND	110	AD1(0)
67	GND	111	AD1(0)
68	GND	112	AD1(0)
69	GND	113	AD1(0)
70	GND	114	AD1(0)
71	GND	115	AD1(0)
72	GND	116	AD1(0)
73	GND	117	AD1(0)
74	GND	118	AD1(0)
75	GND	119	AD1(0)
76	GND	120	AD1(0)
77	GND	121	AD1(0)
78	GND	122	AD1(0)
79	GND	123	AD1(0)
80	GND	124	AD1(0)
81	GND	125	AD1(0)
82	GND	126	AD1(0)
83	GND	127	AD1(0)
84	GND	128	AD1(0)
85	GND	129	AD1(0)
86	GND	130	AD1(0)
87	GND	131	AD1(0)
88	GND	132	AD1(0)
89	GND	133	AD1(0)
90	GND	134	AD1(0)
91	GND	135	AD1(0)
92	GND	136	AD1(0)
93	GND	137	AD1(0)
94	GND	138	AD1(0)
95	GND	139	AD1(0)
96	GND	140	AD1(0)
97	GND	141	AD1(0)
98	GND	142	AD1(0)
99	GND	143	AD1(0)

D104/D106 ELECTRICAL COMPONENT LAYOUT (1/2)

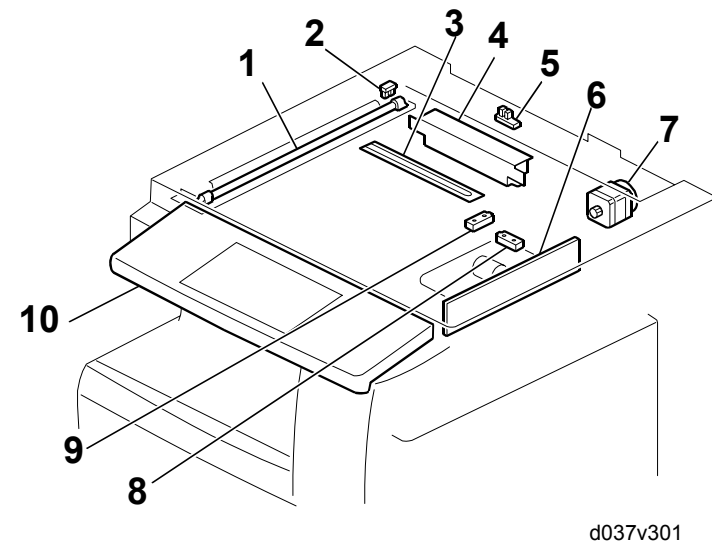
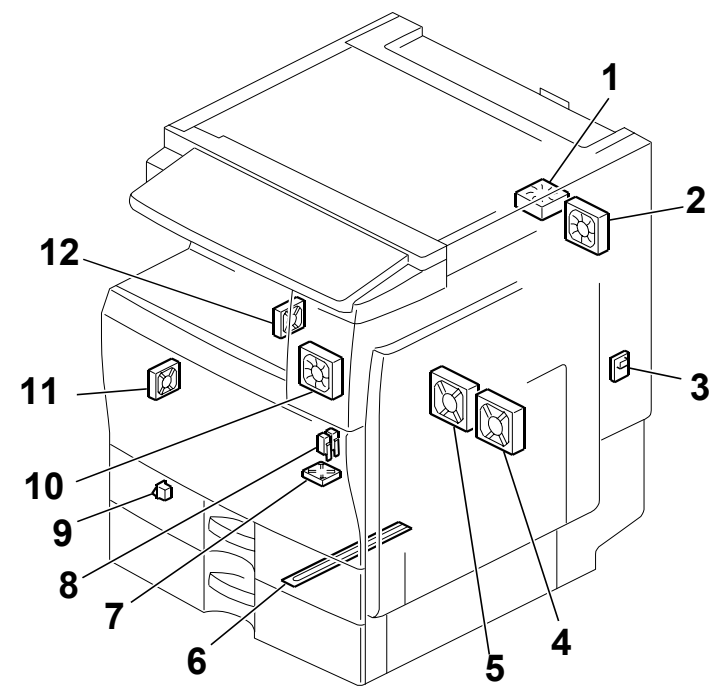


Fig-1



d037v302

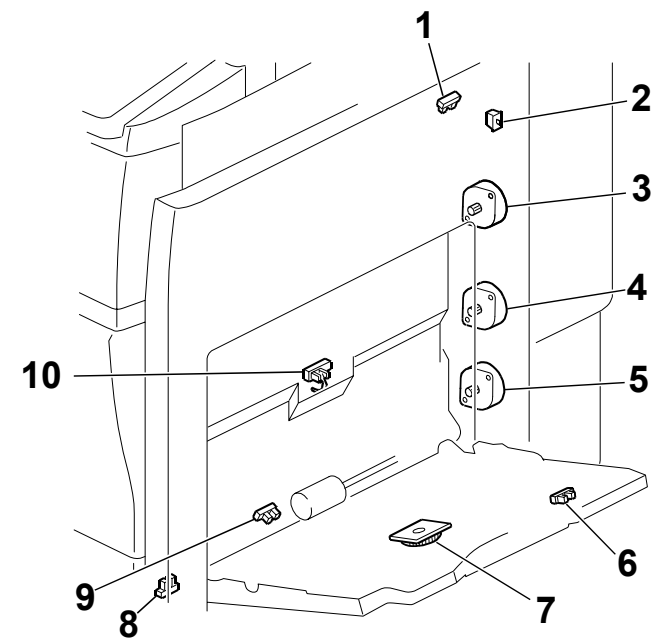


Fig-3

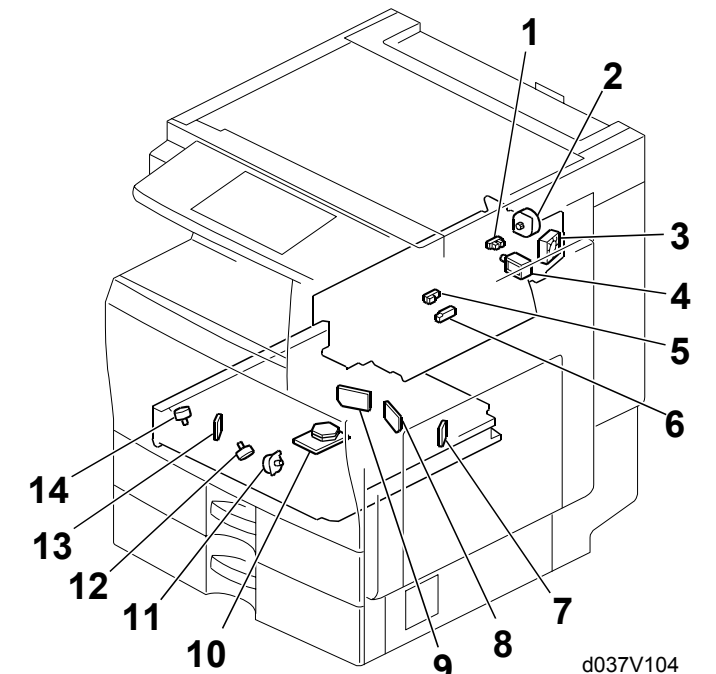


Fig-4

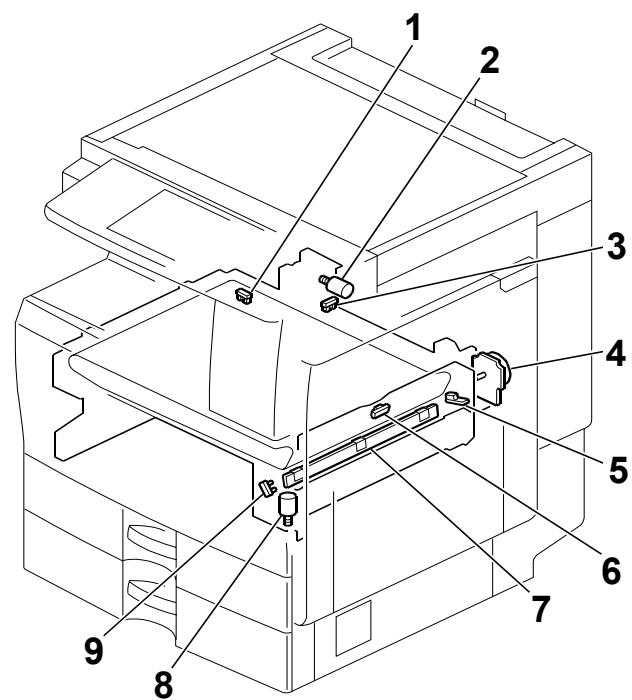


Fig-5

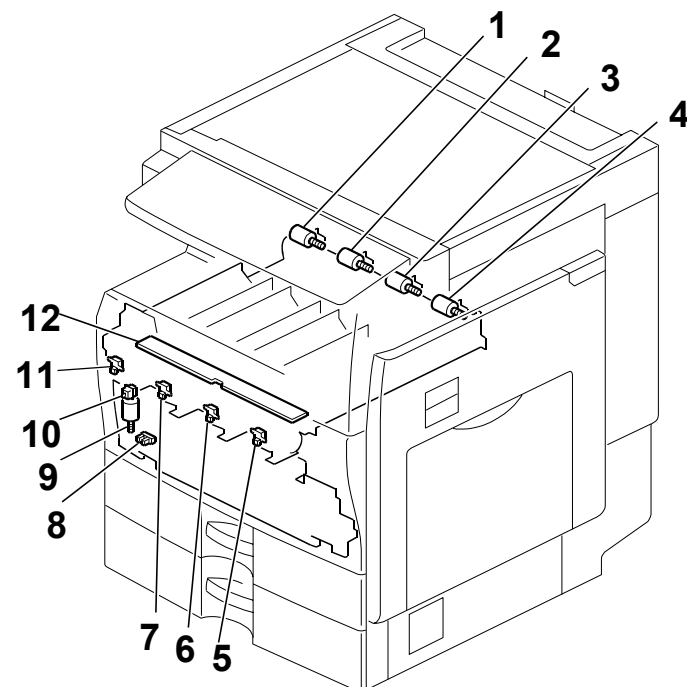


Fig-6

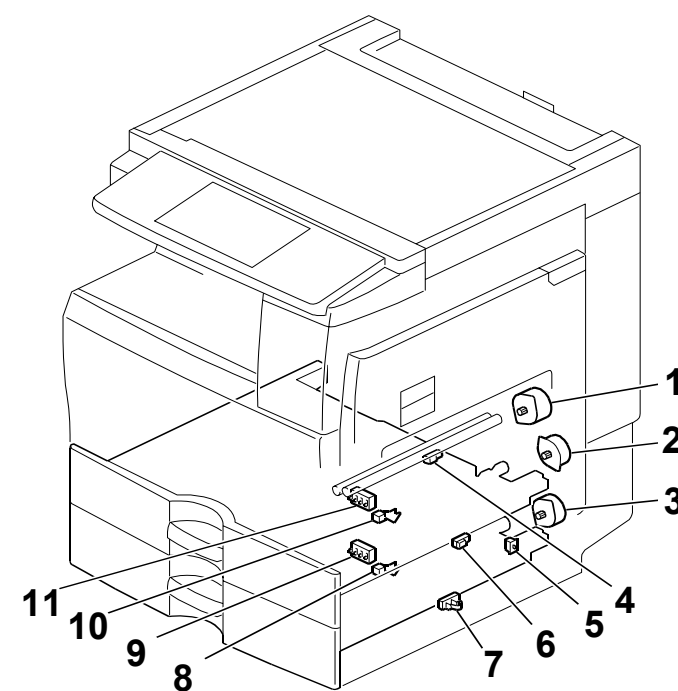


Fig-7

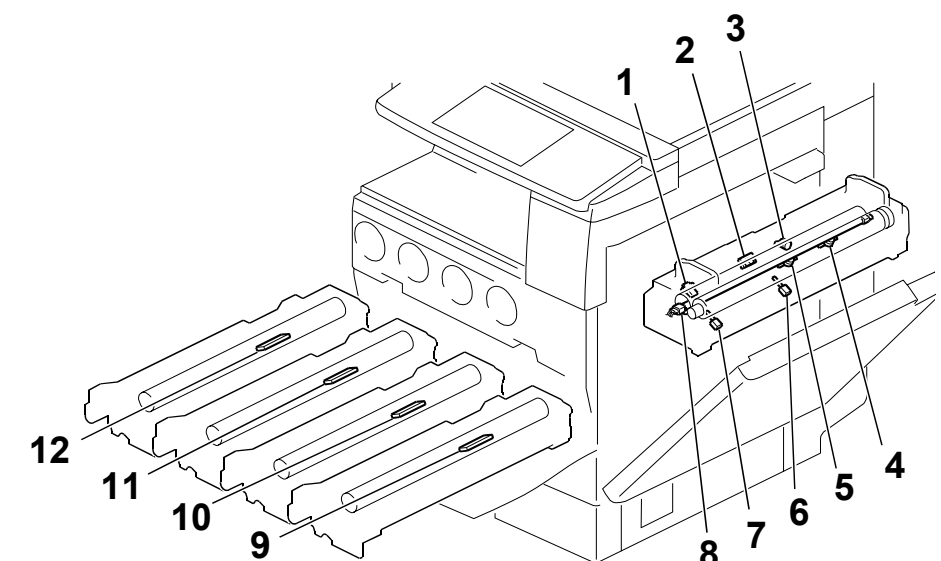
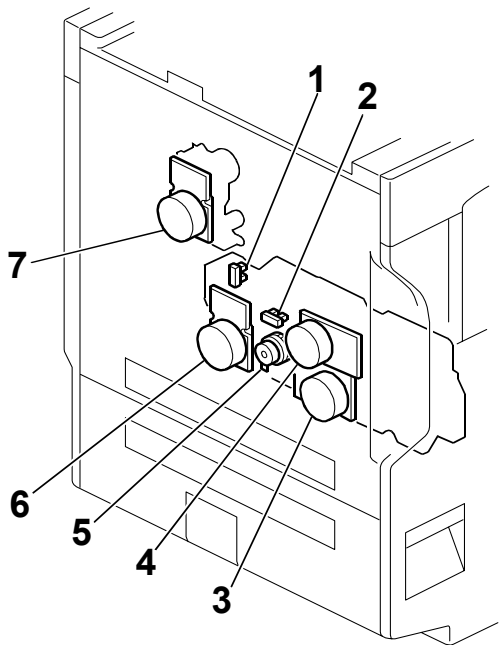


Fig-8

D104/D106 ELECTRICAL COMPONENT LAYOUT (2/2)



d037v309

Fig-9

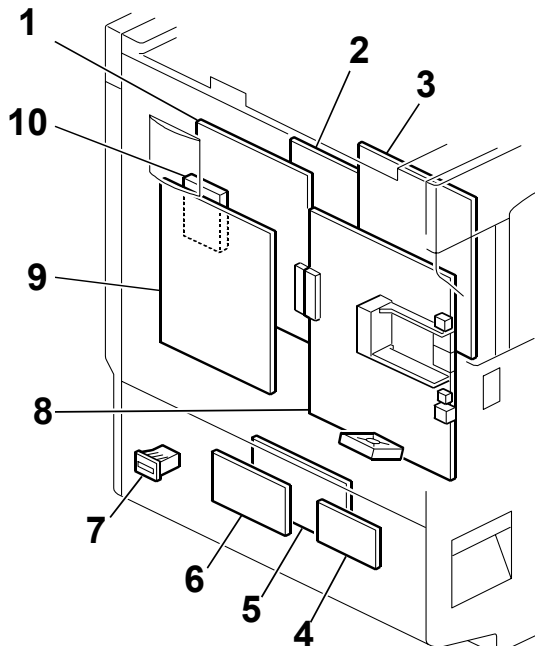


Fig-10

d104v310

Symbol	Index No.	Description	P to P	Page
Motors				
M1	F 1-7	Scanner Motor	C7	1/2
M2	F 5-2	ITB Contact Motor	F5	1/2
M3	F 6-4	Toner Supply Motor:K	F5	1/2
M4	F 6-3	Toner Supply Motor:C	F6	1/2
M5	F 6-2	Toner Supply Motor:M	F6	1/2
M6	F 6-1	Toner Supply Motor:Y	F6	1/2
M7	F 6-9	Toner Collection Motor	F6	1/2
M8	F 7-1	Registration Motor	F7	1/2
M9	F 5-8	PTR Contact Motor	F8	1/2
M10	F 4-14	WTL Positioning Motor-Y	D9	1/2
M11	F 4-12	WTL Positioning Motor-M	D9	1/2
M12	F 4-11	WTL Positioning Motor-C	D9	1/2
M13	F 4-10	Polygon Mirror Motor	C9	1/2
M14	F 7-2	Paper Feed Motor: T1	B2	2/2
M15	F 7-3	Paper Feed Motor: T2	B2	2/2
M16	F 5-4	ITB Unit Motor	B3	2/2
M17	F 3-3	Duplex Entrance Motor	A4	2/2
M18	F 3-4	Duplex Exit Motor	A4	2/2
M19	F 3-5	By-pass Motor	A5	2/2
M20	F 9-7	Fusing/ Paper Exit Motor	B8	2/2
M21	F 4-2	Inverter Motor	B9	2/2
M22	F 9-6	Drum Motor: K	F7	2/2
M23	F 9-4	Drum Motor: CMY	F8	2/2
M24	F 9-3	Development Motor: K	F9	2/2
Clutches				
MC1	F 9-5	Development Clutch: K	F8	2/2
Solenoids				
SOL1	F 4-4	Junction Gate Solenoid	B9	2/2
Switches				
SW1	F 2-9	Main Switch	A1	1/2
SW2	F 7-5	Right Lower Door Open Switch	B3	2/2
SW3	F 2-8	Interlock Switch	B6	2/2
SW4	F 3-2	Duplex Unit Open Switch	B6	2/2
SW5	F 6-10	PCU Toner Collection Bottle Set Switch	E4	2/2
SW6	F 7-9	Paper Size Switch: T1	F5	2/2
SW7	F 7-11	Paper Size Switch: T2	F5	2/2
Lamps				
L1	F 1-1	Exposure Lamp	C6	1/2
L2	F 8-4	Heating Roller Fusing Lamp: Center	E2	2/2
L3		Heating Roller Fusing Lamp: Ends	E2	2/2

Symbol	Index No.	Description	P to P	Page
Sensors				
S1	F 1-7	Original Length Sensor 1	C6	1/2
S2	F 1-8	Original Length Sensor 2	C6	1/2
S3	F 1-2	Scanner HP Sensor	C6	1/2
S4	F 1-5	Platen Cover Sensor	C6	1/2
S5	F 5-7	ID Sensor	A1	2/2
S6	F 7-4	Registration Sensor	A1	2/2
S7	F 5-6	Fusing Entrance Sensor	A2	2/2
S8	F 7-8	Paper End Sensor: T1	A2	2/2
S9	F 7-10	Paper End Sensor: T2	A2	2/2
S10	F 7-6	Vertical Transport Sensor 1	B3	2/2
S11	F 7-7	Vertical Transport Sensor 2	A3	2/2
S12	F 5-5	ITB Rotation Sensor	B3	2/2
S13	F 3-7	By-pass Paper Size Sensor	A4	2/2
S14	F 3-6	By-pass Paper Length Sensor	A5	2/2
S15	F 3-9	By-pass Paper End Sensor	A5	2/2
S16	F 3-8	By-pass HP Sensor	A5	2/2
S17	F 3-1	Duplex Entrance Sensor	A5	2/2
S18	F 3-10	Duplex Exit Sensor	A5	2/2
S19	F 5-9	PTR Contact Sensor	B6	2/2
S20	F 5-3	ITB Contact Sensor	B6	2/2
S21	F 6-11	Toner End Sensor: Y	A7	2/2
S22	F 6-7	Toner End Sensor: M	A7	2/2
S23	F 6-6	Toner End Sensor: C	A7	2/2
S24	F 6-5	Toner End Sensor: K	A7	2/2
S25	F 4-5	Inverter Sensor	B9	2/2
S26	F 4-6	Fusing Exit Sensor	B10	2/2
S27	F 4-1	Paper Exit Sensor	B10	2/2
S28	F 8-2	Thermopile	F3	2/2
S29	F 5-1	ITB Toner Collection Bottle Full Sensor	E4	2/2
S30	F 6-8	PCU Toner Collection Bottle Full Sensor	E4	2/2
S31	F 8-12	TD Sensor: Y	E5	2/2
S32	F 8-11	TD Sensor: M	E6	2/2
S33	F 8-10	TD Sensor: C	E6	2/2
S34	F 8-9	TD Sensor: K	E7	2/2
S35	F 9-1	Drum Phase Sensor: K	F7	2/2
S36	F 9-2	Drum Phase Sensor: CMY	F8	2/2
S37	F 2-3	Temperature/Humidity Sensor	F9	2/2
FANs				
F1	F 2-4	PSU Fan 1	D1	1/2
F2	F 2-5	PSU Fan 2	E1	1/2
F3	F 2-7	Laser Unit Fan	F6	1/2
F4	F 2-11	Ventilation Fan: Front	F7	1/2
F5	F 2-12	Ventilation Fan: Rear	F7	1/2
F6	F 2-2	Fusing Rear Fan	F7	1/2
F7	F 2-10	Fusing Front Fan	F8	1/2
F8	F 2-1	Controller Box Fan	F4	2/2
F9	F 4-3	Junction Gate Fan	B10	2/2
Others				
TS1	F 8-4	Thermostat - Heating Roller	E2	2/2
TS2	F 8-3	Thermostat - Heating Roller	F2	2/2
TH1	F 8-1	Thermistor - Heating Roller	E3	2/2
TH2	F 8-7	Thermistor - Pressure Roller: End	E3	2/2
TH3	F 8-6	Thermistor - Pressure Roller: Center	E3	2/2
HDD1	F 10-	HDD	G5	1/2

Symbol	Index No.	Description	P to P	Page
PCBs				
PCB1	F 10-6	PSU	C2	1/2
PCB2	F 10-9	Controller Board	G6	1/2
PCB3	F 10-	BCU	D8	1/2
PCB4	F 10-	IPU	B7	1/2
PCB5	F 1-10	LCDC	A5	1/2
PCB6		OP-L	A5	1/2
PCB7		OP-R	A6	1/2
PCB8		Inverter:TFF	A5	1/2
PCB9	F 1-6	SBU	C5	1/2
PCB10	F 1-4	Lamp Stabilizer	C6	1/2
PCB11	F 4-13	Laser Synchronizing Detector -YM	C9	1/2
PCB12	F 4-7	Laser Synchronizing Detector -KC	C9	1/2
PCB13	F 4-8	LDB: KC	C9	1/2
PCB14	F 4-9	LDB: YM	C9	1/2
PCB15	F 6-12	RFID-RW	B6	2/2
PCB16	F 10-2	HVPS: TTS	D7	2/2
PCB17	F 10-3	HVPS: CB	D8	2/2
PCB18	F 10-5	SRVDB	A2	1/2
PCB19	F 10-7	DRB	E8	1/2
Heaters				
H1	F 2-6	Tray Heater (Option)	B1	1/2
H2	F 1-3	Anti-condensation Heater - Scanner (Option)	C1	1/2
H3	-	Optional Tray Heater (Option)	D1	1/2
Counters				
C1	F 10-7	Mechanical Counter	D3	2/2
C2	-	Key Counter	D3	2/2