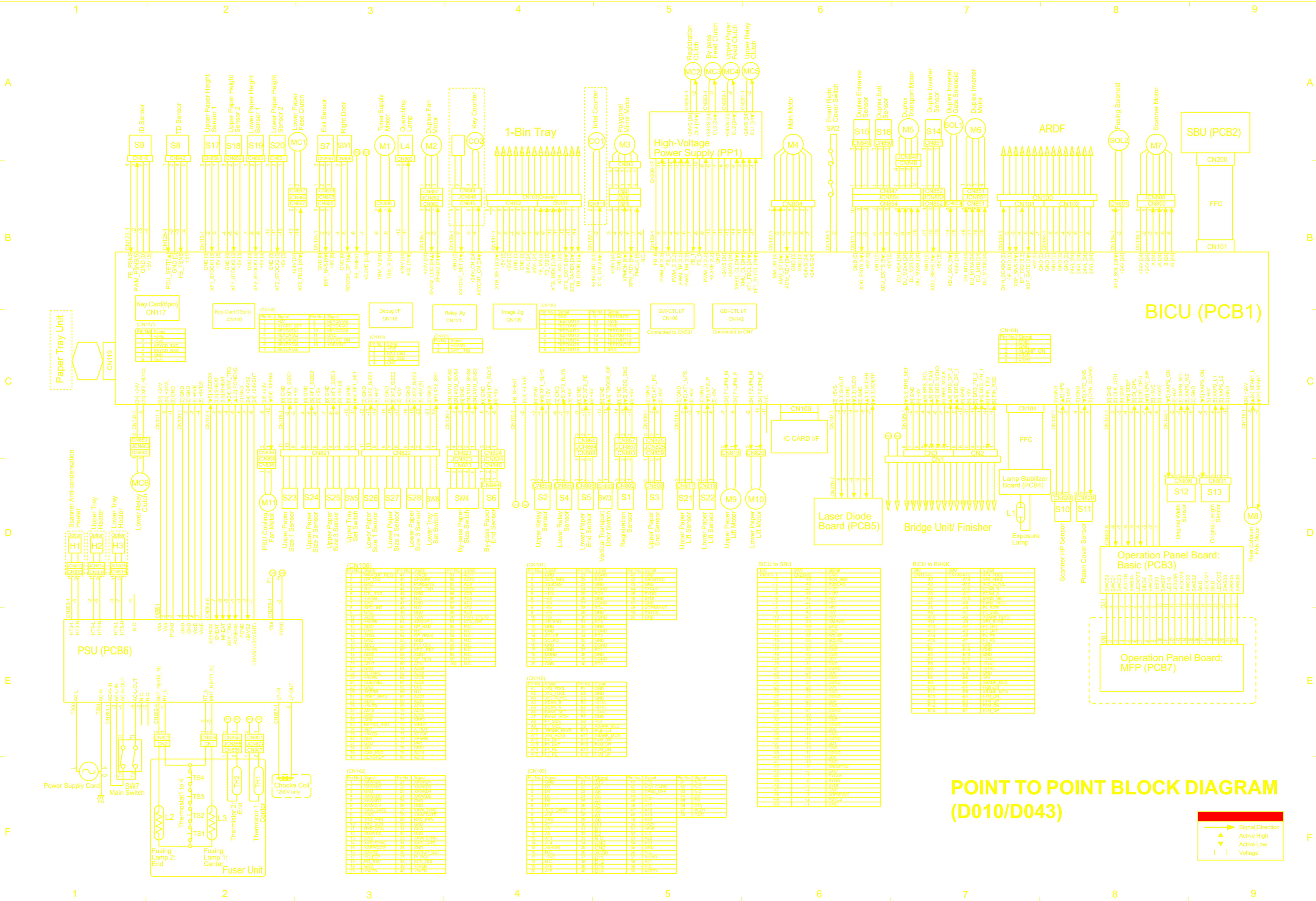
POINT TO POINT BLOCK DIAGRAM (D010/D043)



(CN117)

Pin No	Signal
1	+5VE
2	+5VE
3	KEYCD_TXD
4	KEYCD_RXD
5	GND
6	GND

(CN140)

Pin No.	Signal	Pin No.	Signal
1	+5V	8	KEYDATA6
2	KYCRD_SET	9	KEYDATA7
3	KEYDATA1	10	KEYDATA8
4	KEYDATA2	11	GND
5	KEYDATA3	12	KYCRD_ON
6	KEYDATA4	13	+24VCNT
7	KEYDATA5		

(CN118)

Pin No.	Signal
1	+5VE
2	RXD_DBG
3	TXD_DBG
4	GND

(CN121)

Pin No.	Signal
1	+24VS2
2	XRY_TRG

(CN139)

Pin No.	Signal	Pin No.	Signal
1	GND	9	TESTOUT7
2	TESTOUT0	10	+5VE
3	TESTOUT1	11	+5VE
4	TESTOUT2	12	TESTOUT10
5	TESTOUT3	13	TESTOUT12
6	TESTOUT4	14	TESTOUT13
7	TESTOUT5	15	TESTOUT15
8	TESTOUT6	16	GND

(CN104)

Pin No.	Signal
1	GND
2	GND
3	XLAMP_ON
4	+24V
5	+24V

(CN106)

Pin No.	Signal	Pin No.	Signal	Pin No.	Signal
1	WAKEUP_REQ	41	+5VEB	81	AD11
2	OP_TXD	42	XPWSW	82	AD10
3	GND	43	PONSENS	83	AD8
4	N.C.	44	CSS_TXD	84	CBE0
5	CTL_TXD	45	GND	85	AD6
6	+5VEB	46	N.C.	86	AD5
7	GND	47	GND	87	AD3
8	XPCI_INT	48	N.C.	88	AD2
9	GND	49	GND	89	AD0
10	AD30	50	+24V	90	PWR_CTLR0
11	+5VEB	51	XWKUP_L	91	XCN_GW
12	AD27	52	OP_RXD	92	N.C.
13	GND	53	N.C.	93	N.C.
14	AD24	54	OP_RCLK	94	N.C.
15	GND	55	GND	95	N.C.
16	AD23	56	PCI_CLK	96	N.C.
17	+5VEB	57	XPCI_RST	97	N.C.
18	AD20	58	XGNT	98	N.C.
19	GND	59	OP_REQ	99	N.C.
20	AD17	60	AD31	100	N.C.
21	GND	61	AD29		
22	XFRAME	62	AD28		
23	+5VEB	63	AD26		
24	XDEVSEL	64	AD25		
25	GND	65	CBE		
26	XSERR	66	N.C.		
27	VDET_EPCI	67	AD22		
28	AD15	68	AD21		
29	+5VEB	69	AD19		
30	AD12	70	AD18		
31	GND	71	AD16		
32	AD9	72	CBE2		
33	KEYCD_RXD	73	XIRDY		
34	AD7	74	XTRDY		
35	+5VEB	75	XSTOP		
36	AD4	76	XPERR		
37	GND	77	PAR		
38	AD1	78	CBE1		
39	CSS_RXD	79	AD14		
40	XENGRDY	80	AD13		

(CN142)

Pin No.	Signal	Pin No.	Signal
1	XAWKD0	21	XAWKD1
2	XAWKD2	22	XAWKD3
3	GND	23	XAWKD4
4	XAWKD5	24	XAWKD6
5	XAWKD7	25	GND
6	XAWCLK	26	GND
7	XAWLGATE	27	XAWLSYNC
8	GND	28	XAWFGATE
9	TXD_PRN	29	RXD_PRN
10	TXD_SCN	30	GND
11	RXD_SCN	31	CKO
12	XMSYNC	32	GND
13	GND	33	XAWFSYNC
14	XARLSYNC	34	XARLGATE
15	XARFGATE	35	GND
16	XARKD	36	XWKUP_GDI
17	XSLEEP	37	PI_RSV
18	PO_RSV	38	XCN_GDI
19	GND	39	+5VEB
20	+5VEB	40	+5VEB

(CN101)

Pin No.	Signal	Pin No.	Signal	Pin No.	Signal
1	GND	21	DGND	41	GND
2	XCN_SBU	22	SD6	42	XRDSYNC
3	XSSCAN	23	GND	43	GND
4	+12V	24	DGND	44	SYCLK
5	+12V	25	SD5	45	SYDO
6	+5V	26	GND	46	SYDI
7	+5V	27	DGND	47	GND
8	+5V	28	SD4	48	XOPBSYNC
9	+5V	29	GND	49	XSYCS
10	+5V	30	DGND	50	GND
11	XSLEAD	31	SD3		
12	GND	32	GND		
13	GND	33	DGND		
14	SCLKE	34	SD2		
15	SCLKO	35	GND		
16	GND	36	DGND		
17	GND	37	SD1		
18	DGND	38	GND		
19	SD7	39	DGND		
20	GND	40	SD0		

(CN119)

Pin No.	Signal	Pin No.	Signal
A1	XF4_FDCL	B1	GND
A2	XF3_FDCL	B2	GND
A3	XF3_RLYCL	B3	GND
A4	SCAN_B	B4	+24VL
A5	SCAN_A	B5	+24VL
A6	BANK_SET	B6	+24VL
A7	BANK_HIGH	B7	GND
A8	F4_SIZE	B8	+5V
A9	F3_SIZE	B9	XBANK_MLD
A10	XBANK_RLYS	B10	High spd
A11	XF3_RLYS	B11	XBANK_MON
A12	F4_LMT	B12	F4M_DN
A13	F3_LMT	B13	F4M_UP
A14	F4_PE	B14	F3M_DN
A15	F3_PE	B15	F3M_UP

(CN109)

Pin No.	Signal	Pin No.	Signal	Pin No.	Signal	Pin No.	Signal
1	GND	21	A12	41	D15	61	N.C.
2	D3	22	A7	42	XCS_CARD	62	N.C.
3	D4	23	A6	43	XPSU_OFF	63	N.C.
4	D5	24	A5	44	N.C.	64	D8
5	D6	25	A4	45	N.C.	65	D9
6	D7	26	A3	46	A17	66	D10
7	XCS_CARD	27	A2	47	A18	67	XCD1
8	A10	28	A1	48	A19	68	GND
9	XRD	29	A0	49	A20		
10	A11	30	D0	50	FA21		
11	A9	31	D1	51	+5VE		
12	A8	32	D2	52	N.C.		
13	A13	33	N.C.	53	A22		
14	A14	34	GND	54	A23		
15	XEHWR	35	GND	55	GND		
16	N.C.	36	XCD0	56	N.C.		
17	+5VE	37	D11	57	XHWR		
18	N.C.	38	D12	58	A21		
19	A16	39	D13	59	N.C.		
20	A15	40	D14	60	XSTBY		

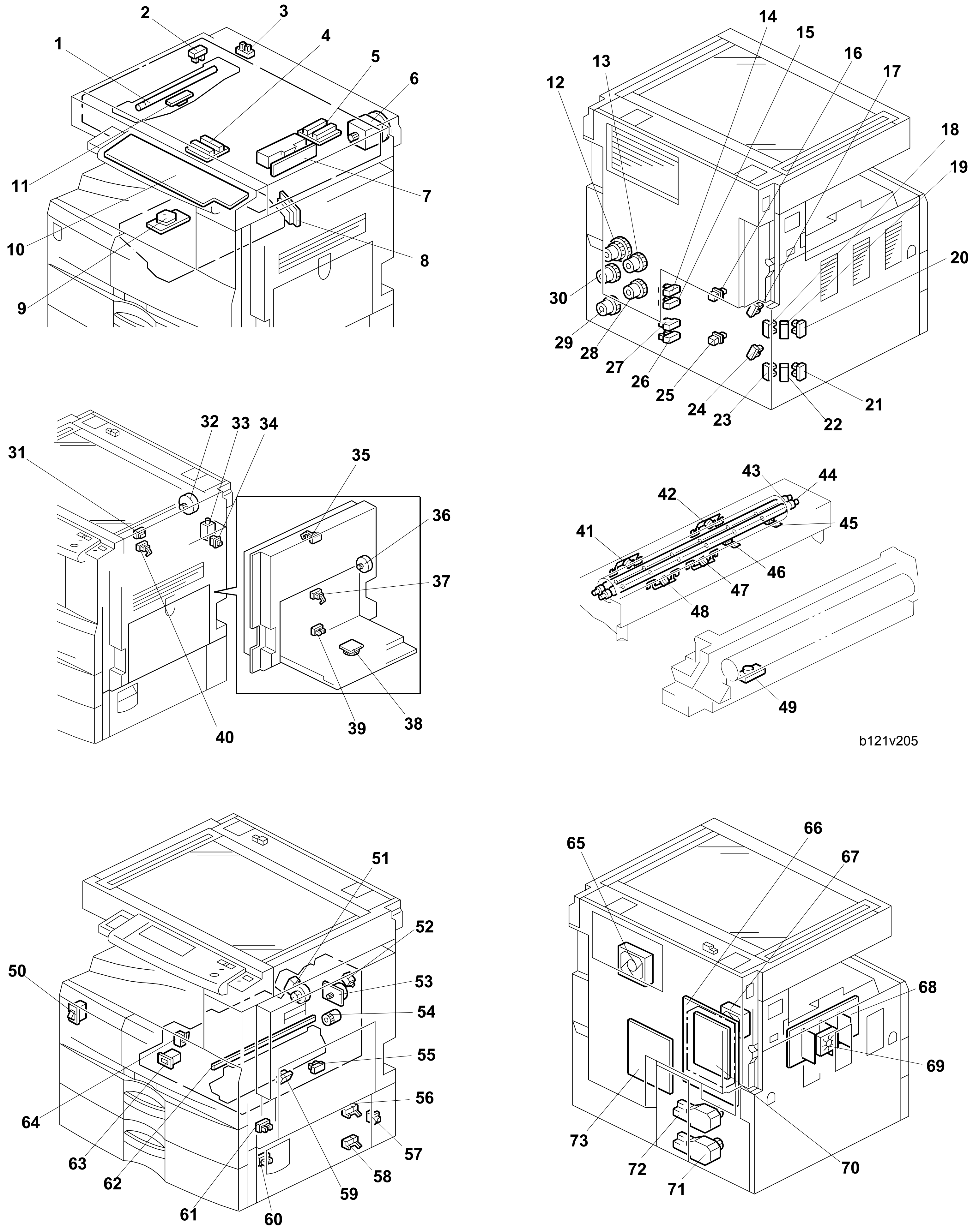
BiCU to SBU

BIC	BAN	Signal
CN101- 1	CN200-50	GND
- 2	-49	XCN_SBU
- 3	-48	XSSCAN
- 4	-47	+12V
- 5	-46	+12V
- 6	-45	+5V
- 7	-44	+5V
- 8	-43	+5V
- 9	-42	+5V
-10	-41	+5V
-11	-40	XSLEAD
-12	-39	GND
-13	-38	GND
-14	-37	SCLKE
-15	-36	SCLKO
-16	-35	GND
-17	-34	GND
-18	-33	DGN
-19	-32	SD7
-20	-31	GND
-21	-30	DGND
-22	-29	SD6
-23	-28	GND
-24	-27	DGND
-25	-26	SD5
-26	-25	GND
-27	-24	DGND
-28	-23	SD4
-29	-22	GND
-30	-21	DGND
-31	-20	SD3
-32	-19	GND
-33	-18	DGND
-34	-17	SD2
-35	-16	GND
-36	-15	DGND
-37	-14	SD1
-38	-13	GND
-39	-12	DGND
-40	-11	SD0
-41	-10	GND
-42	- 9	XRDSYNC
-43	- 8	GND
-44	- 7	SYCLK
-45	- 6	SYDO
-46	- 5	SYDI
-47	- 4	GND
-48	- 3	XOPBSYNC
-49	- 2	XSYCS
-50	- 1	GND

BiCU to BANK

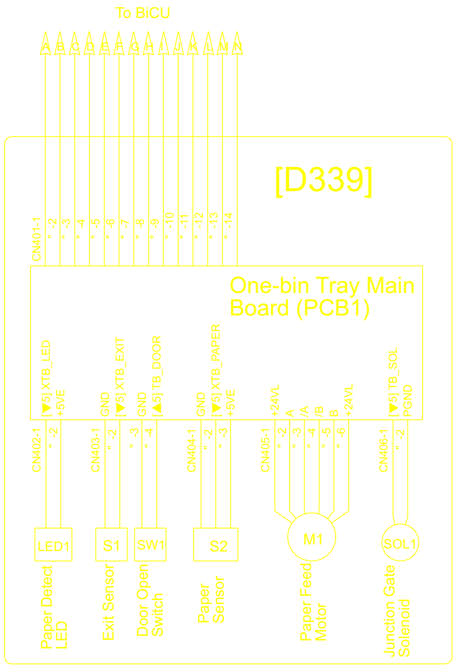
BIC	SBU	Signal
CN119-A1	CN100-A15	XF4_FDCL
-A2	-A14	XF3_FDCL
-A3	-A13	XF3_RLYCL
-A4	-A12	SCAN_B
-A5	-A11	SCAN_A
-A6	-A10	BANK_SET
-A7	-A9	BANK_HIGH
-A8	-A8	F4_SIZE
-A9	-A7	F3_SIZE
-A10	-A6	XBANK_RLYS
-A11	-A5	XF3_RLYS
-A12	-A4	F4_LMT
-A13	-A3	F3_LMT
-A14	-A2	F4_PE
-A15	-A1	F3_PE
-B1	-B15	GND
-B2	-B14	GND
-B3	-B13	GND
-B4	-B12	+24VL
-B5	-B11	+24VL
-B6	-B10	+24VL
-B7	-B9	GND
-B8	-B8	+5V
-B9	-B7	XBANK_MLD
-B10	-B6	High spd
-B11	-B5	XBANK_MON
-B12	-B4	F4M_DN
-B13	-B3	F4M_UP
-B14	-B2	F3M_DN
-B15	-B1	F3M_UP

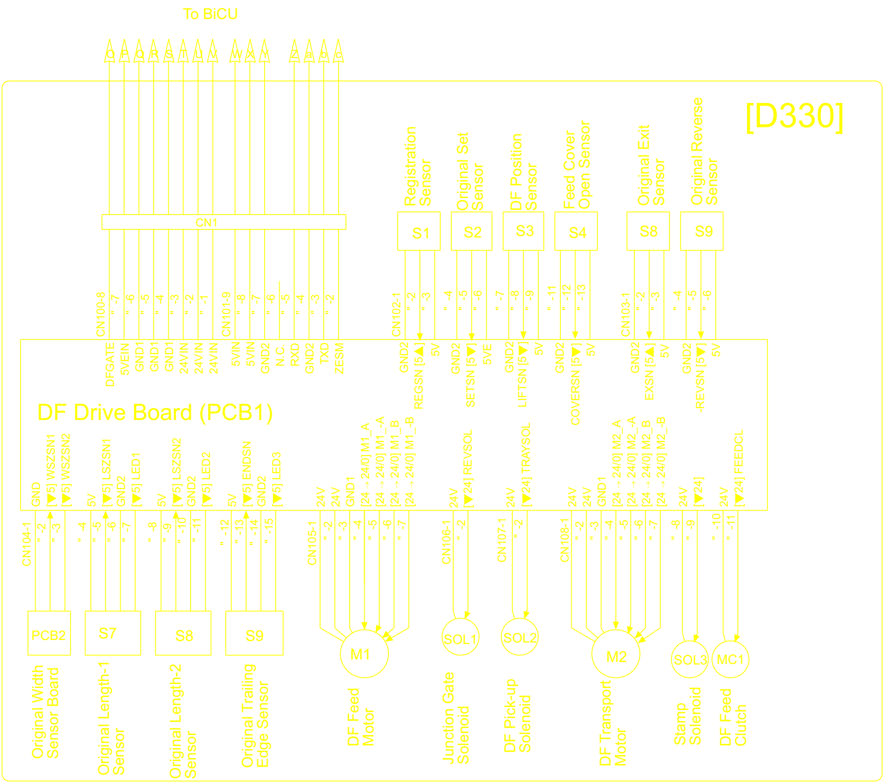
ELECTRICAL COMPONENT LAYOUT (D010/D043)

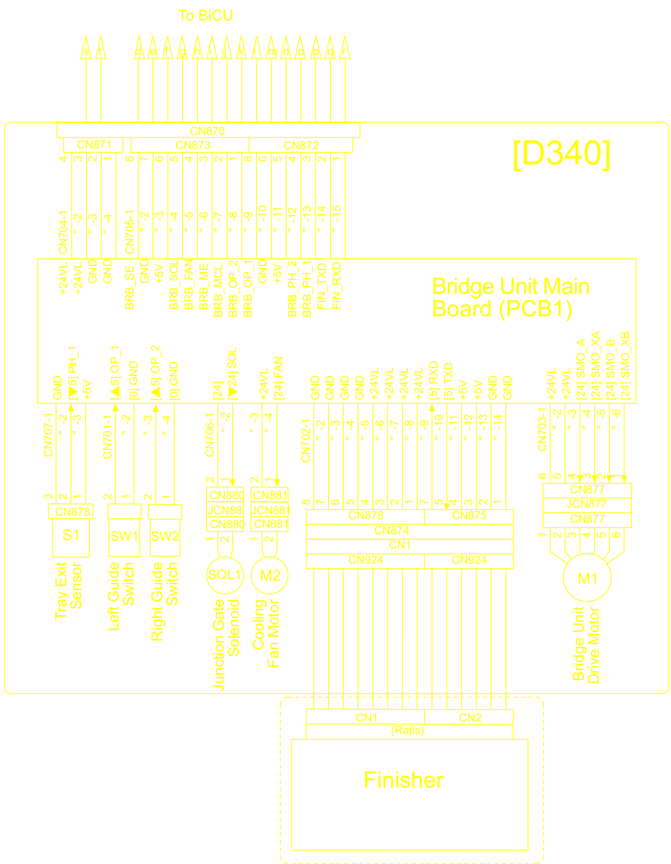


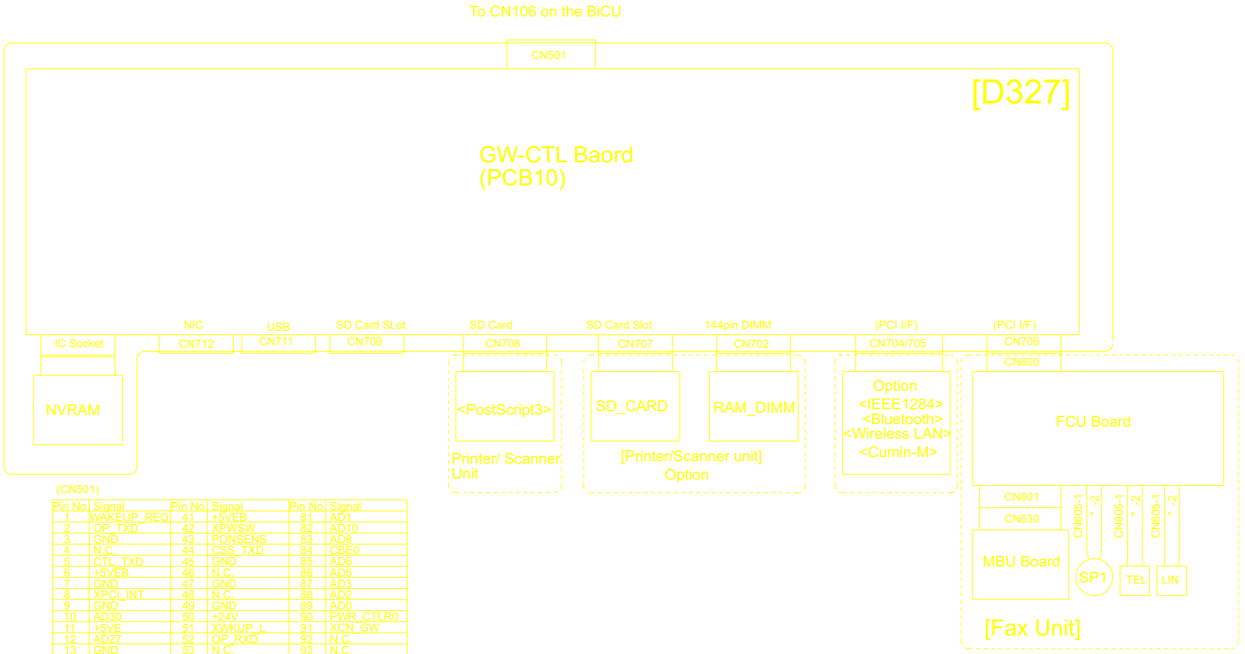
Symbol	Index No.	Description	P to P
Sensors			
S1	55	Registration	D5
S2	56	Upper Relay	D4
S3	61	Upper Paper End	D5
S4	58	Lower Relay	D4
S5	60	Lower Paper End	D4
S6	39	By-pass Paper End	D4
S7	40	Exit	A3
S8	49	Toner Density (TD)	A2
S9	59	Image Density (ID)	A1
S10	2	Scanner H.P.	D8
S11	3	Platen Cover	D8
S12	4	Original Width	D8
S13	5	Original Length	D9
S14	31	Duplex Inverter	A7
S15	35	Duplex Entrance	A6
S16	37	Duplex Exit	A6
S17	14	Upper Paper Height 1	A2
S18	15	Upper Paper Height 2	A2
S19	27	Lower Paper Height 1	A2
S20	26	Lower Paper Height 2	A2
S21	17	Upper Paper Lift	D5
S22	24	Lower Paper Lift	D5
S23	20	Upper Paper Size 1	D2
S24	19	Upper Paper Size 2	D3
S25	18	Upper Paper Size 3	D3
S26	21	Lower Paper Size 1	D3
S27	22	Lower Paper Size 2	D3
S28	23	Lower Paper Size 3	D3
Switches			
SW1	34	Right Door	A3
SW2	64	Front/Right Cover	A6
SW3	57	Vertical Transport Door	D5
SW4	38	By-pass Paper Size	D4
SW5	16	Upper Tray Set	D3
SW6	25	Lower Tray Set	D3
SW7	50	Main	F1
Magnetic Clutches			
MC1	28	Lower Paper Feed	A3
MC2	54	Registration	A5
MC3	12	By-pass Feed	A5
MC4	13	Upper Paper Feed	A5
MC5	30	Upper Relay	A6
MC6	29	Lower Relay	D1
Motors			
M1	51	Toner Supply	A3
M2	65	Duplex Fan	A3
M3	9	Polygonal Mirror	A5
M4	53	Main	A6
M5	36	Duplex Transport	A7
M6	32	Duplex Inverter	A7
M7	6	Scanner	A8
M8	67	Rear Exhaust Fan	D9
B9	71	Upper Paper Lift	D5
B10	72	Lower Paper Lift	D6
B11	69	PSU Cooling Fan	D2

Symbol	Index No.	Description	P to P
Lamps			
L1	1	Exposure	D7
L2	43	Fusing-1	F2
L3	44	Fusing-2	F2
L4	62	Quenching (LED)	A3
Counters			
CO1	63	Total (Option)	A5
CO2	—	Key (Option)	A4
Solenoids			
SOL1	33	Duplex Inverter Gate	A7
SOL2	52	Fusing	A8
Power Pack			
PP1	73	Power Pack-BCT/CL	A5
PCBs			
PCB1	66	BICU	C1-9
PCB2	7	SBU	A9
PCB3	10	Operation Panel Board (OPU) Basic	D8-9
PCB4	11	Lamp Stabilizer Board	D7-8
PCB5	8	Laser Diode Unit (LDU)	D6
PCB6	68	Power Supply Unit (PSU)	E1-2
PCB7	10	Operation Panel Board (OPU) MFP	E8-9
PCB9	70	GDI Controller	*OP:D4-5
PCB10	70	GW Controller	*OP:D1-4
*OP: Please refer to the Option's PtoP Diagram.			
Heaters			
H1	—	Anti-condensation – Optic (Option)	D1
H2	—	Upper Tray (Option)	D1
H3	—	Lower Tray (Option)	D1
Others			
TH1	46	Fusing Thermistor1	F2
TH2	45	Fusing Thermistor2	F2
TS1	41	Fusing Thermostat	F2
TS2	42	Fusing Thermostat	F2
TS3	47	Fusing Thermostat	F2
TS4	48	Fusing Thermostat	F2



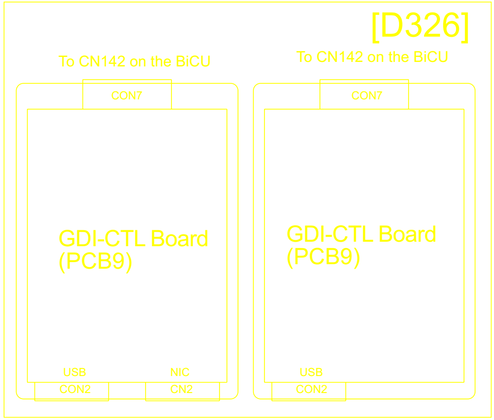






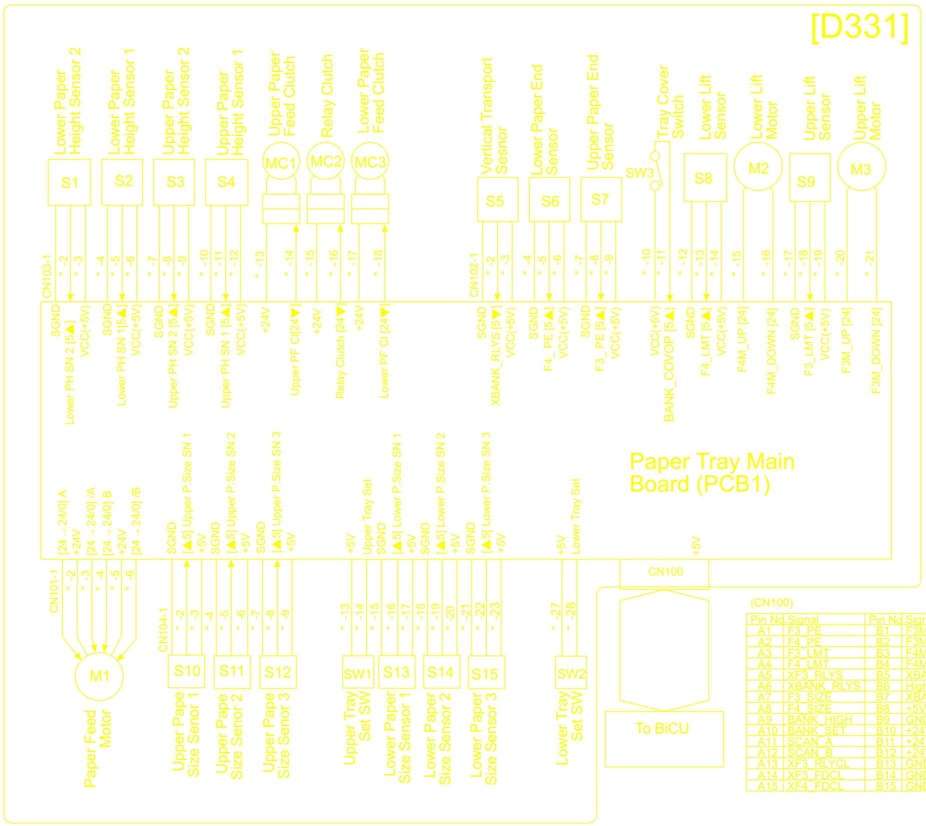
(CN501)

Pin No.	Signal	Pin No.	Signal	Pin No.	Signal
1	WAKEUP_REQ	41	+5VEB	81	AD1
2	OP_TXD	42	XPWSW	82	AD10
3	GND	43	PONSENS	83	AD8
4	N.C.	44	CSS_TXD	84	CBE0
5	CTL_TXD	45	GND	85	AD6
6	+5VEB	46	N.C.	86	AD5
7	GND	47	GND	87	AD3
8	XPCI_INT	48	N.C.	88	AD2
9	GND	49	GND	89	AD0
10	AD30	50	+24V	90	PWR_CTLR0
11	+5VE	51	XWKUP_L	91	XCN_GW
12	AD27	52	OP_RXD	92	N.C.
13	GND	53	N.C.	93	N.C.
14	AD24	54	OP_RCLK	94	N.C.
15	GND	55	GND	95	N.C.
16	AD23	56	PCI_CLK	96	N.C.
17	+5VEB	57	XPCI_RST	97	N.C.
18	AD20	58	XGNT	98	N.C.
19	GND	59	OP_REQ	99	N.C.
20	AD17	60	AD31	100	N.C.
21	GND	61	AD29		
22	XFRAME	62	AD28		
23	+5VEB	63	AD26		
24	XDEVSEL	64	AD25		
25	GND	65	CBE3		
26	XSERR	66	N.C.		
27	VDET_EPCI	67	AD22		
28	AD15	68	AD21		
29	+5VEB	69	AD19		
30	AD12	70	AD18		
31	GND	71	AD16		
32	AD9	72	CBE2		
33	KEYCD_RXD	73	XIRDY		
34	AD7	74	XTRDY		
35	+5VEB	75	XSTOP		
36	AD4	76	XPERR		
37	GND	77	PAR		
38	AD1	78	CBE1		
39	CSS_RXD	79	AD14		
40	XNEGRDY	80	AD13		



(CON7)

Pin No.	Signal	Pin No.	Signal
1	XAWKD0	21	XAWKD1
2	XAWKD2	22	XAWKD3
3	GND	23	XAWKD4
4	XAWKD5	24	XAWKD6
5	XAWKD7	25	GND
6	XAWCLK	26	GND
7	XAWLGATE	27	XAWLSYNC
8	GND	28	XAWFGATE
9	TXD_PRN	29	RXD_PRN
10	TXD_SCN	30	GN
11	RXD_SCN	31	CKO
12	XMSYNC	32	GND
13	GND	33	XAWFSYNC
14	XARLSYNC	34	XARLGATE
15	XARFGATE	35	GND
16	XARKD	36	XWKUP_GDI
17	XSLEEP	37	PI_RSV
18	PO_RSV	38	XCN_GDI
19	GN	39	+5VEB
20	+5VEB	40	+5VEB



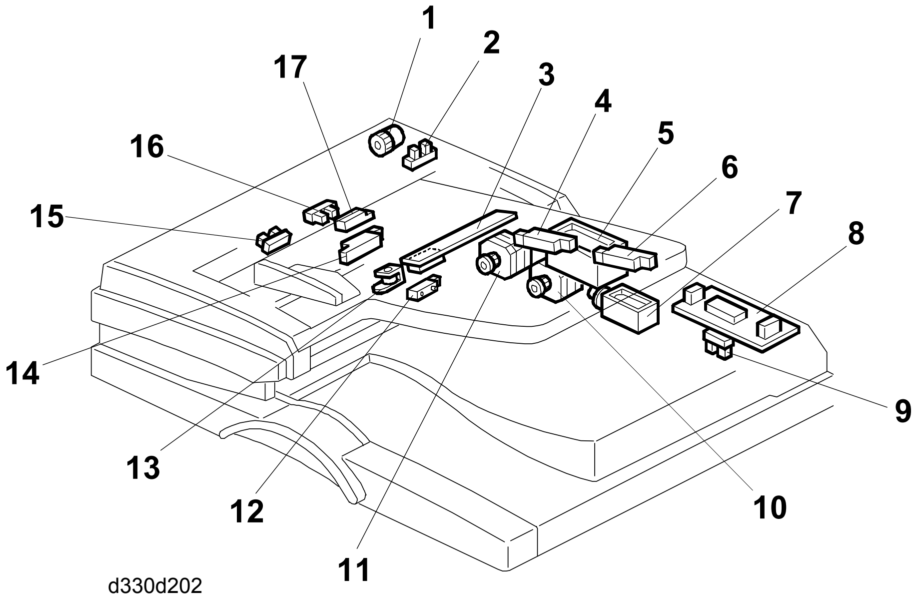
(CN100)

Pin No.	Signal	Pin No.	Sign
A1	F3_PE	B1	F3M_UP
A2	F4_PE	B2	F3M_DN
A3	F3_LMT	B3	F4M_UP
A4	F4_LMT	B4	F4M_DN
A5	XF3_RLYS	B5	XBANK_MON
A6	XBANK_RLYS	B6	High spd
A7	F3_SIZE	B7	XBANK_MLD
A8	F4_SIZE	B8	+5V
A9	BANK_HIGH	B9	GND
A10	BANK_SET	B10	+24VL
A11	SCAN_A	B11	+24VL
A12	SCAN_B	B12	+24VL
A13	XF3_RLYCL	B13	GND
A14	XF3_FDCL	B14	GND
A15	XF4_FDCL	B15	GND

POINT TO POINT BLOCK DIAGRAM (D326/D327/D330/D331/D339/D340)

→	Signal Direction
▲	Active High
▼	Active Low
[ ]	Voltage

ELECTRICAL COMPONENT LAYOUT (D330/D331/D339/D340)



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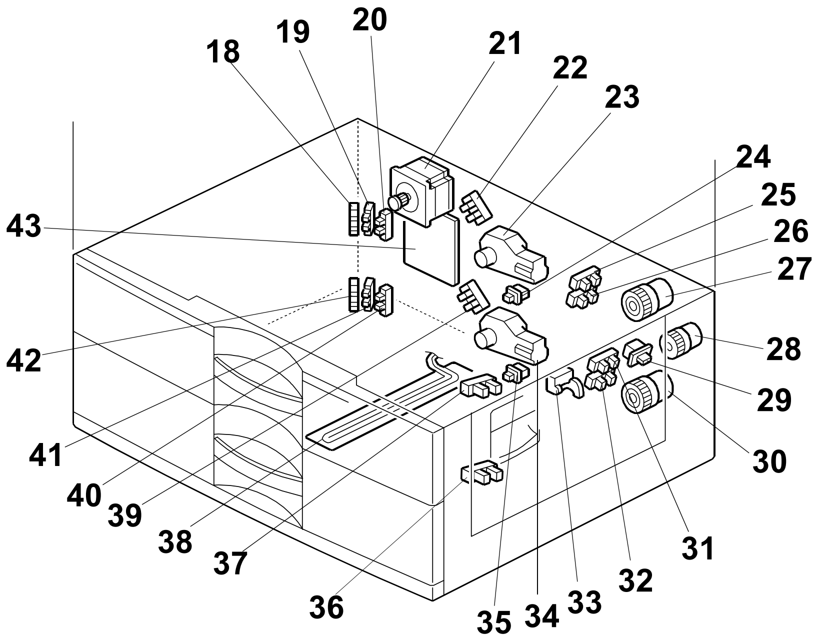

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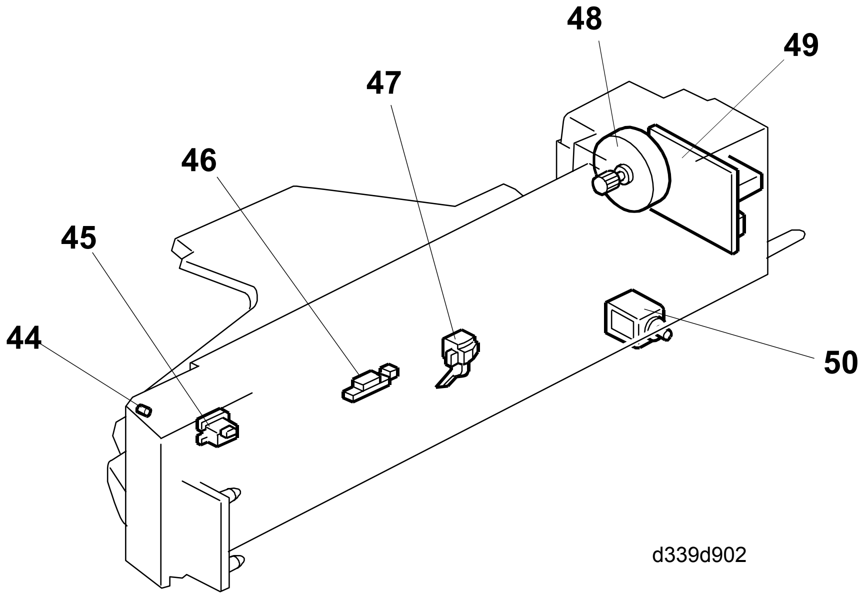

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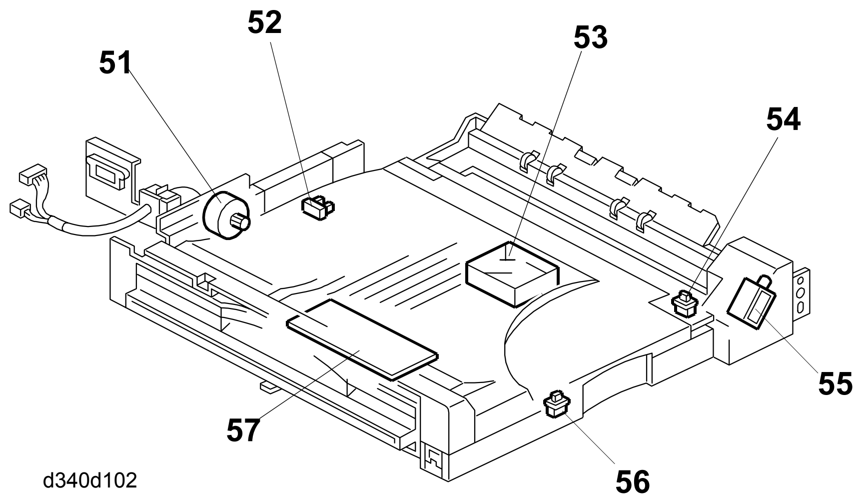

d340d102

ARDF (D330)

Symbol	Index No.	Description	P to P
Motors			
M1	10	DF Feed	B4
M2	11	DF Transport	B5
Sensors			
S1	17	Registration	A5
S2	15	Original Set	A5
S3	9	DF Position	A5
S4	2	Feed Cover Open	A5
S5	12	Original Exit	A5
S6	16	Original Reverse	A5
S7	4	Original Length 1	B4
S8	6	Original Length 2	B4
S9	14	Original Trailing Edge	B4
Solenoids			
SOL1	7	Junction Gate	B5
SOL2	5	DF Pick-up	B5
SOL3	13	Stamp	B5
Magnetic Clutch			
MC1	1	DF Feed	B5
PCBs			
PCB1	8	DF Drive	B3-5
PCB2	3	Original Width Sensor	B3

Paper Tray Unit (D331)

Symbol	Index No.	Description	P to P
Motors			
M1	21	Paper Feed	E6
M2	34	Lower Lift	D8
M3	23	Upper Lift	D8
Sensors			
S1	32	Lower Paper Height 2	D6
S2	31	Lower Paper Height 1	D6
S3	26	Upper Paper Height 2	D6
S4	25	Upper Paper Height 1	D7
S5	33	Vertical Transport	D7
S6	36	Lower Paper End	D7
S7	37	Upper Paper End	D8
S8	39	Lower Lift	D8
S9	22	Upper Lift	D8
S10	18	Upper Paper Size 1	E6
S11	19	Upper Paper Size 2	E7
S12	20	Upper Paper Size 3	E7
S13	42	Lower Paper Size 1	E7
S14	41	Lower Paper Size 2	E7
S15	40	Lower Paper Size 3	E7
Switches			
SW1	24	Upper Tray Set	E7
SW2	35	Lower Tray Set	E7
SW3	29	Tray Cover	D8
Magnetic Clutches			
MC1	27	Upper Paper Feed	D7
MC2	28	Relay	D7
MC3	30	Lower Paper Feed	D7
PCB			
PCB1	43	Paper Tray Main	E6-8

One-bin Tray Unit (D330)

Symbol	Index No.	Description	P to P
Motor			
M1	48	Paper Feed	B2
Sensors			
S1	47	Exit	B2
S2	46	Paper	B2
Switch			
Sw1	45	Door Open	B2
Solenoid			
SOL1	50	Junction Gate	B3
PCB			
PCB1	49	One-bin Tray Main	B2-3
LED			
LED1	44	Paper Detect	B2

Bridge Unit (D330)

Symbol	Index No.	Description	P to P
Motors			
M1	51	Bridge Unit Drive	B8
M2	53	Cooling Fan	B7
Sensor			
S1	52	Tray Exit	B7
Switches			
SW1	56	Left Guide	B7
SW2	54	Right Guide	B7
Solenoid			
SOL1	55	Junction Gate	B7
PCB			
PCB1	57	Bridge Unit Main	B6-8