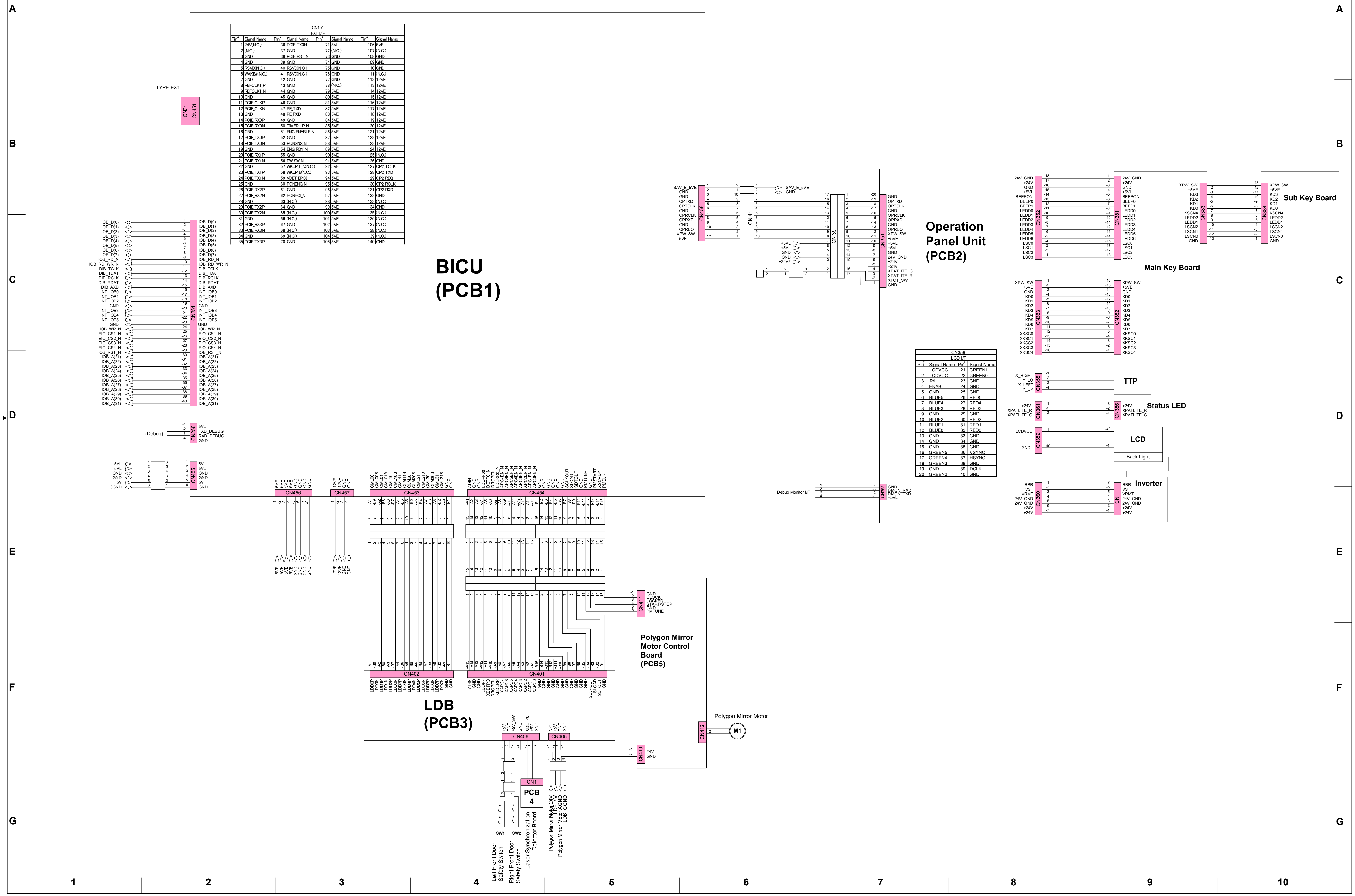
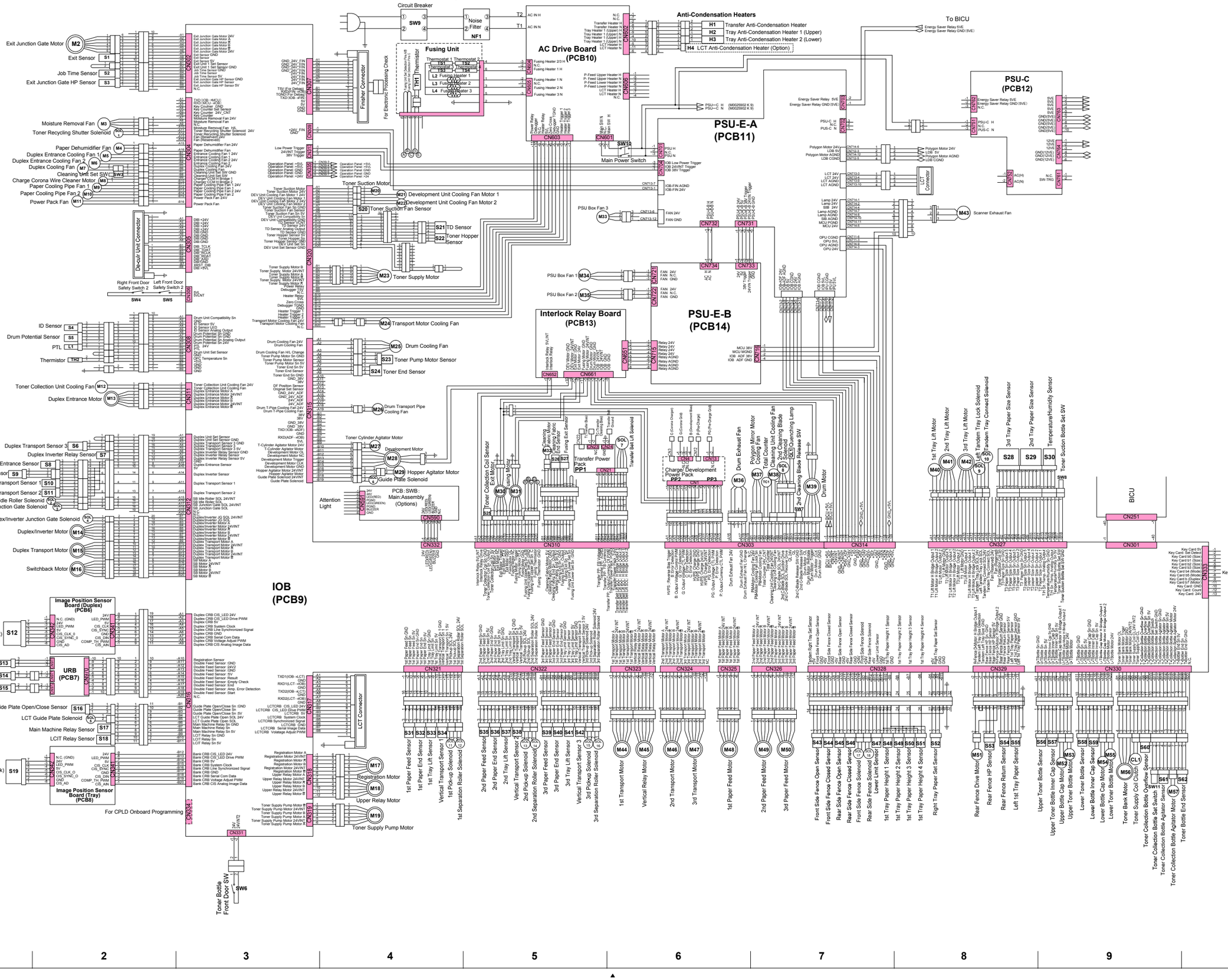
M002/M003/M004 POINT TO POINT DIAGRAM (1/3)



CN451							
EX1 I/F							
Pin#	Signal Name	Pin#	Signal Name	Pin#	Signal Name	Pin#	Signal Name
1	24V(N.C.)	36	PCIE_TX3N	71	5VL	106	5VE
2	(N.C.)	37	GND	72	(N.C.)	107	(N.C.)
3	GND	38	PCIE_RST_N	73	GND	108	GND
4	GND	39	GND	74	GND	109	GND
5	RSVD(N.C.)	40	RSVD(N.C.)	75	GND	110	GND
6	WAKE#(N.C.)	41	RSVD(N.C.)	76	GND	111	(N.C.)
7	GND	42	GND	77	GND	112	12VE
8	REFCLK1_P	43	GND	78	(N.C.)	113	12VE
9	REFCLK1_N	44	GND	79	5VE	114	12VE
10	GND	45	GND	80	5VE	115	12VE
11	PCIE_CLKP	46	GND	81	5VE	116	12VE
12	PCIE_CLKN	47	PE_TXD	82	5VE	117	12VE
13	GND	48	PE_RXD	83	5VE	118	12VE
14	PCIE_RX0P	49	GND	84	5VE	119	12VE
15	PCIE_RX0N	50	TIMER_UP_N	85	5VE	120	12VE
16	GND	51	ENG_ENABLE_N	86	5VE	121	12VE
17	PCIE_TX0P	52	GND	87	5VE	122	12VE
18	PCIE_TX0N	53	PONSNS_N	88	5VE	123	12VE
19	GND	54	ENG_RDY_N	89	5VE	124	12VE
20	PCIE_RX1P	55	GND	90	5VE	125	(N.C.)
21	PCIE_RX1N	56	PW_SW_N	91	5VE	126	GND
22	GND	57	WKUP_L_N(N.C.)	92	5VE	127	OP2_TCLK
23	PCIE_TX1P	58	WKUP_E(N.C.)	93	5VE	128	OP2_TXD
24	PCIE_TX1N	59	VDET_EPCI	94	5VE	129	OP2_REQ
25	GND	60	PONENG_N	95	5VE	130	OP2_RCLK
26	PCIE_RX2P	61	GND	96	5VE	131	OP2_RXD
27	PCIE_RX2N	62	PONPCI_N	97	5VE	132	GND
28	GND	63	(N.C.)	98	5VE	133	(N.C.)
29	PCIE_TX2P	64	GND	99	5VE	134	GND
30	PCIE_TX2N	65	(N.C.)	100	5VE	135	(N.C.)
31	GND	66	(N.C.)	101	5VE	136	(N.C.)
32	PCIE_RX3P	67	GND	102	5VE	137	(N.C.)
33	PCIE_RX3N	68	(N.C.)	103	5VE	138	(N.C.)
34	GND	69	(N.C.)	104	5VE	139	(N.C.)
35	PCIE_TX3P	70	GND	105	5VE	140	GND

CN359			
LCD I/F			
Pin#	Signal Name	Pin#	Signal Name
1	LCDVCC	21	GREEN1
2	LCDVCC	22	GREEN0
3	R/L	23	GND
4	ENAB	24	GND
5	GND	25	GND
6	BLUE5	26	RED5
7	BLUE4	27	RED4
8	BLUE3	28	RED3
9	GND	29	GND
10	BLUE2	30	RED2
11	BLUE1	31	RED1
12	BLUE0	32	RED0
13	GND	33	GND
14	GND	34	GND
15	GND	35	GND
16	GREEN5	36	VSYNC
17	GREEN4	37	HSYNC
18	GREEN3	38	GND
19	GND	39	DCLK
20	GREEN2	40	GND

M002/M003/M004 POINT TO POINT DIAGRAM (2/3)



M002/M003/M004 POINT TO POINT DIAGRAM (3/3)

Egret CN 3 DIMM (DDR2) I/F

Pin No.	Signal Name	Pin No.	Signal Name	Pin No.	Signal Name	Pin No.	Signal Name	Pin No.	Signal Name	Pin No.	Signal Name	Pin No.	Signal Name
1	VREF	31	DQ19	61	A4	91	VSS	121	VSS	151	VSS	181	VDDQ	211	DM5
2	VSS	32	VSS	62	VDDQ	92	N.C.	122	DQ4	152	DQ28	182	A3	212	N.C.
3	DQ0	33	DQ24	63	A2	93	DQS5	123	DQ5	153	DQ29	183	A1	213	VSS
4	DQ1	34	DQ25	64	VDDQ	94	VSS	124	VSS	154	VSS	184	VDD	214	DQ46
5	VSS	35	VSS	65	VSS	95	DQ42	125	DM0	155	DM3	185	CK0	215	DQ47
6	N.C.	36	N.C.	66	VSS	96	DQ43	126	N.C.	156	N.C.	186	/CK0	216	VSS
7	DQS0	37	DQS3	67	VDD	97	VSS	127	VSS	157	VSS	187	VDD	217	DQ52
8	VSS	38	VSS	68	N.C	98	DQ48	128	DQ6	158	DQ30	188	A0	218	DQ53
9	DQ2	39	DQ26	69	VDD	99	DQ49	129	DQ7	159	DQ31	189	VDD	219	VSS
10	DQ3	40	DQ27	70	A10/AP	100	VSS	130	VSS	160	VSS	190	BA1	220	CK2
11	VSS	41	VSS	71	BA0	101	SA2	131	DQ12	161	CB4	191	VDDQ	221	/CK2
12	DQ8	42	CB0	72	VDDQ	102	N.C.	132	DQ13	162	CB5	192	/RAS	222	VSS
13	DQ9	43	CB1	73	/WE	103	VSS	133	VSS	163	VSS	193	/S0	223	DM6
14	VSS	44	VSS	74	/CAS	104	N.C.	134	DM1	164	DM8	194	VDDQ	224	N.C.
15	N.C.	45	N.C.	75	VDDQ	105	DQS6	135	N.C.	165	N.C.	195	ODT0	225	VSS
16	DQS1	46	DQS8	76	/S1	106	VSS	136	VSS	166	VSS	196	A13	226	DQ54
17	VSS	47	VSS	77	ODT1	107	DQ50	137	CK1	167	CB6	197	VDD	227	DQ55
18	/RESET	48	CB2	78	VDDQ	108	DQ51	138	/CK1	168	CB7	198	VSS	228	VSS
19	N.C.	49	CB3	79	VSS	109	VSS	139	VSS	169	VSS	199	DQ36	229	DQ60
20	VSS	50	VSS	80	DQ32	110	DQ56	140	DQ14	170	VDDQ	200	DQ37	230	DQ61
21	DQ10	51	VDDQ	81	DQ33	111	DQ57	141	DQ15	171	CKE1	201	VSS	231	VSS
22	DQ11	52	CKE0	82	VSS	112	VSS	142	VSS	172	VDD	202	DM4	232	DM7
23	VSS	53	VDDQ	83	N.C	113	N.C.	143	DQ20	173	N.C.	203	N.C	233	N.C.
24	DQ16	54	BA2	84	DQS4	114	DQS7	144	DQ21	174	N.C.	204	VSS	234	VSS
25	DQ17	55	N.C.	85	VSS	115	VSS	145	VSS	175	VDDQ	205	DQ38	235	DQ62
26	VSS	56	VDDQ	86	DQ34	116	DQS8	146	DM2	176	A12	206	DQ39	236	DQ63
27	N.C.	57	A11	87	DQ35	117	DQ59	147	N.C.	177	A9	207	VSS	237	VSS
28	DQS2	58	A7	88	VSS	118	VSS	148	VSS	178	VDD	208	DQ44	238	VDDSPD
29	VSS	59	VDDQ	89	DQ40	119	SDA	149	DQ22	179	A8	209	DQ45	239	SA0
30	DQ18	60	A5	90	DQ41	120	SCL	150	DQ23	180	A6	210	VSS	240	SA1

Egret CN9, CN24 (LAN I/F)

Pin No.	Signal Name	Pin No.	Signal Name
1	TRD0+	5	TRD2-
2	TRD0-	6	TRD1-
3	TRD1+	7	TRD3+
4	TRD2+	8	TRD3-

Egret CN5 (IEEE1284-C I/F)

Pin No.	Signal Name	Pin No.	Signal Name
1	BUSY	19	GND
2	SELECT	20	GND
3	#ACK	21	GND
4	#FAULT	22	GND
5	PERROR	23	GND
6	D0	24	GND
7	D1	25	GND
8	D2	26	GND
9	D3	27	GND
10	D4	28	GND
11	D5	29	GND
12	D6	30	GND
13	D7	31	GND
14	#INIT	32	GND
15	#STROBE	33	GND
16	#SELECT IN	34	GND
17	#AUTO FEED	35	GND
18	HOST LOGIC H	36	PERP LOGIC H

Egret CN1 (JTAG I/F for ICE)

Pin No.	Signal Name	Pin No.	Signal Name
1	TDO	9	TMS
2	#QACK	10	N.C.
3	TDI	11	#SRES
4	#TRST	12	GND
5	#QREQ	13	#CPUHRES
6	1.8V	14	N.C.
7	TCK	15	#CKSTPO
8	#CKSTPI	16	GND

Egret CN28 (FPGA Flash Program I/F)

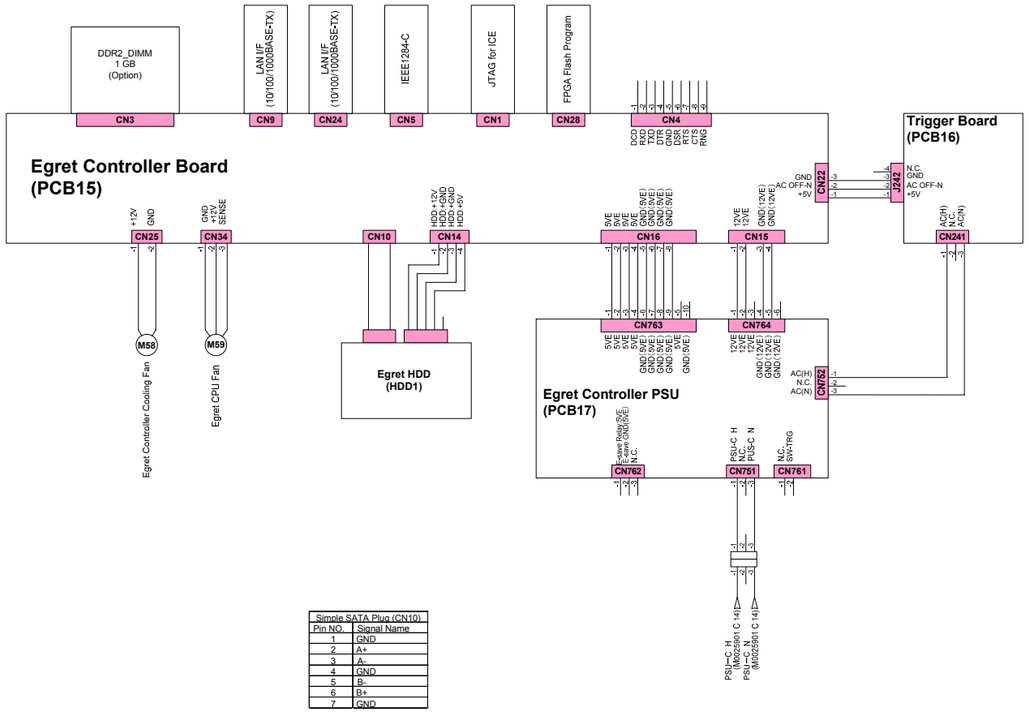
Pin No.	Signal Name	Pin No.	Signal Name
1	GND	8	DIN
2	3.3V	9	GND
3	GND	10	MOSI
4	#CSOB	11	GND
5	GND	12	N.C.
6	SCK	13	GND
7	GND	14	N.C.

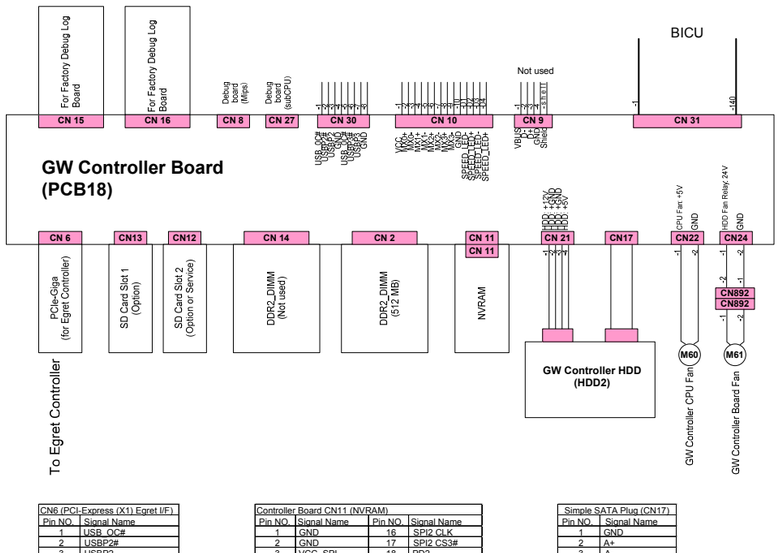
Controller Board CN15, 16 (For Factory Debug Log Board)

Pin NO.	Signal Name	Pin NO.	Signal Name	Pin NO.	Signal Name	Pin NO.	Signal Name
1	GND	23	GND	45	DEVSEL	67	AD5
2	INT	24	AD25	46	STOP	68	AD4
3	GND	25	AD24	47	GND	69	AD3
4	Reserved	26	C/BE3	48	PERR	70	AD2
5	GND	27	GND	49	SERR	71	+3.3V
6	CLKRUN	28	IDSEL	50	PAR	72	AD1
7	GND	29	AD23	51	GND	73	+3.3V
8	RST	30	AD22	52	C/BE1	74	AD0
9	GND	31	GND	53	AD15	75	+3.3V
10	CLK	32	AD21	54	AD14	76	Reserved
11	GND	33	AD20	55	GND	77	+3.3V
12	GNT	34	AD19	56	AD13	78	Reserved
13	GND	35	GND	57	AD12	79	+3.3V
14	REQ	36	AD18	58	AD11	80	Reserved
15	GND	37	AD17	59	GND	81	+3.3V
16	PME	38	AD16	60	AD10	82	Reserved
17	AD31	39	GND	61	AD9	83	+5V
18	AD30	40	C/BE2	62	AD8	84	Reserved
19	AD29	41	FRAME	63	GND	85	+5V
20	AD28	42	IRDY	64	C/BE0	86	Reserved
21	AD27	43	GND	65	AD7	87	+3.3Vaux
22	AD26	44	TRDY	66	AD6	88	+24V(NC)

Controller Board CN 31 (BICU Board)

Pin NO.	Signal Name	Pin NO.	Signal Name	Pin NO.	Signal Name	Pin NO.	Signal Name	Pin NO.	Signal Name
1	24V(IN)	26	PCIE_RX2_P	51	ENG_ENABLE#	76	GND	101	+5VE IN	126	GND
2	N.C.	27	PCIE_RX2_n	52	GND	77	GND	102	+5VE IN	127	OP2_TCLK/OP0CLK
3	GND	28	GND	53	PONSENS#(SDLED	78	N.C.	103	+5VE IN	128	OP2_TXD/OP0_TXD
4	GND	29	PCIE_TX2_P	54	ENGRDY1#	79	+5VE IN	104	+5VE IN	129	OP2_REQ
5	RSVD	30	PCIE_TX2_N	55	GND	80	+5VE IN	105	+5VE IN	130	OP2_RCLK
6	WAKE#(NC)	31	GND	56	PW_SW#	81	+5VE IN	106	+5VE IN	131	OP2_RXD/OP0_RXD
7	GND	32	PCIE_RX3_P	57	WKUP_L#	82	+5VE IN	107	N.C.	132	GND
8	REFCLK1+	33	PCIE_RX3_N	58	WKUP_E	83	+5VE IN	108	GND	133	OP4_CLK/OP0_CLK
9	REFCLK1-	34	GND	59	VDET_EPCI	84	+5VE IN	109	GND	134	GND
10	GND	35	PCIE_TX3_P	60	PONENG#	85	+5VE IN	110	GND	135	OP4_CS#/OP0_TXD
11	REFCLK0+	36	PCIE_TX3_N	61	GND	86	+5VE IN	111	N.C.	136	OP4_SDA/OP0_RXD
12	REFCLK0-	37	GND	62	PONPC1#	87	+5VE IN	112	+12VE (IN)	137	OP4_IRQ#
13	GND	38	PERST#	63	PSAVE_FCU	88	+5VE IN	113	+12VE (IN)	138	OP4_ONLINE_LED_ON#
14	PCIE_RX0_P	39	GND	64	GND	89	+5VE IN	114	+12VE (IN)	139	OP4_RST#
15	PCIE_RX0_N	40	RSVD	65	USB 0D+	90	+5VE IN	115	+12VE (IN)	140	GND
16	GND	41	RSVD	66	USB 0D-	91	+5VE IN	116	+12VE (IN)		
17	PCIE_TX0_P	42	GND	67	GND	92	+5VE IN	117	+12VE (IN)		
18	PCIE_TX0_N	43	GND	68	USB 1D+(RSVD)	93	+5VE IN	118	+12VE (IN)		
19	GND	44	GND	69	USB 1D-(RSVD)	94	+5VE IN	119	+12VE (IN)		
20	PCIE_RX1_P	45	GND	70	GND	95	+5VE IN	120	+12VE (IN)		
21	PCIE_RX1_N	46	GND	71	+5V IN	96	+5VE IN	121	+12VE (IN)		
22	GND	47	PETXD	72	N.C.	97	+5VE IN	122	+12VE (IN)		
23	PCIE_TX1_P	48	PETXD	73	GND	98	+5VE IN	123	+12VE (IN)		
24	PCIE_TX1_N	49	GND	74	GND	99	+5VE IN	124	+12VE (IN)		
25	GND	50	TIMER_UP#	75	GND	100	+5VE IN	125	N.C.		





CN6 (PCI-Express (X1) Egret I/F)

Pin NO.	Signal Name
1	USB_OC#
2	USBP2#
3	USBP2
4	GND
5	USB_OC#
6	USBP3#
7	USBP3
8	GND

Controller Board CN11 (NVRAM)

Pin NO.	Signal Name	Pin NO.	Signal Name
1	GND	16	SPI2 CLK
2	GND	17	SPI2 CS3#
3	VCC_SPI	18	PD2
4	VCC_I2C	19	RESERVE
5	SPI1_CS0#	20	RESET#
6	SPI1_CS1#	21	SPI2 CS2#
7	SPI1_CS2#	22	INT_RTC#
8	SPI1_CS3#	23	I2C CLK
9	SPI1 DIN	24	I2C DATA
10	SPI1 CLK	25	PD0
11	SPI1 DOUT	26	PD1
12	SPI2 DOUT	27	VCC_I2C
13	SPI2 CS1#	28	VCC_SPI
14	SPI2 CS0#	29	GND
15	SPI2 DIN	30	GND

Simple SATA Plug (CN17)

Pin NO.	Signal Name
1	GND
2	A+
3	A-
4	GND
5	B+
6	B-
7	GND

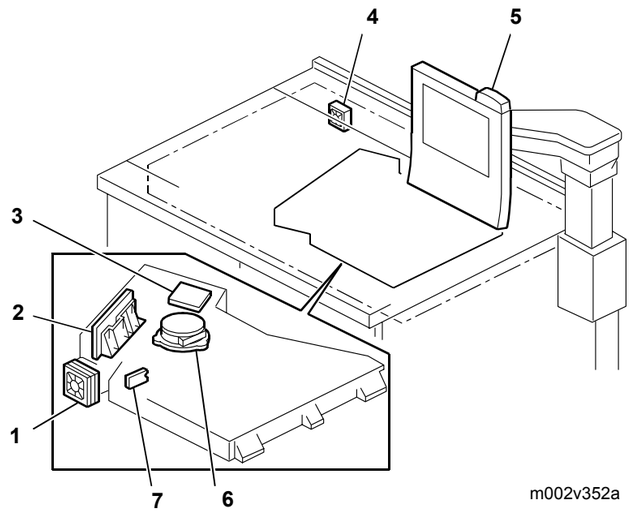
Simple SATA Plug (CN10)

Pin NO.	Signal Name
1	GND
2	A+
3	A-
4	GND
5	B-
6	B+
7	GND

Controller Board CN14 (DDR2-DIMM PC4200 512M, 1G; CN2 is not used.)

Pin NO.	Signal Name	Pin NO.	Signal Name	Pin NO.	Signal Name	Pin NO.	Signal Name	Pin NO.	Signal Name	Pin NO.	Signal Name	Pin NO.	Signal Name	Pin NO.	Signal Name
1	VREF	26	DM1	51	DQS2	76	DQ31	101	A1	126	DQ37	151	DQ42	176	DQ55
2	VSS	27	VSS	52	DM2	77	VSS	102	A0	127	VSS	152	DQ46	177	VSS
3	VSS	28	VSS	53	VSS	78	VSS	103	VDD	128	VSS	153	DQ43	178	VSS
4	DQ4	29	DQS1	54	VSS	79	CKE0	104	VDD	129	DQS4	154	DQ47	179	DQ56
5	DQ0	30	CK0	55	DQ18	80	NC/CKE1	105	A10/AP	130	DM4	155	VSS	180	DQ60
6	DQ5	31	DQS1	56	DQ22	81	VDD	106	BA1	131	DQS4	156	VSS	181	DQS7
7	DQ1	32	CK0	57	DQ19	82	VDD	107	BA0	132	VSS	157	DQ48	182	DQ61
8	VSS	33	VSS	58	DQ23	83	NC/S2#	108	RAS	133	VSS	158	DQ52	183	VSS
9	VSS	34	VSS	59	VSS	84	NC/A15	109	WE	134	DQ38	159	DQ49	184	VSS
10	DM0	35	DQ10	60	VSS	85	NC/BA2	110	S0	135	DQ34	160	DQS3	185	DM7
11	DQS	36	DQ14	61	DQ24	86	NC/A14	111	VDD	136	DQ39	161	VSS	186	DQS7
12	VSS	37	DQ11	62	DQ28	87	VDD	112	VDD	137	DQ35	162	VSS	187	VSS
13	DQS0	38	DQ15	63	DQ25	88	VDD	113	CAS	138	VSS	163	NC,TEST	188	DQS7
14	DQ6	39	VSS	64	DQ29	89	A12	114	ODT0	139	VSS	164	CK1	189	DQ58
15	VSS	40	VSS	65	VSS	90	A11	115	NC/S1	140	DQ44	165	VSS	190	VSS
16	DQ7	41	VSS	66	VSS	91	A9	116	NC/A13	141	DQ40	166	CK1	191	DQ59
17	DQ2	42	VSS	67	DM3	92	A7	117	VDD	142	DQ45	167	DQS6	192	DQ62
18	VSS	43	DQ16	68	DQS3	93	A8	118	VDD	143	DQ41	168	VSS	193	VSS
19	DQ3	44	DQ20	69	NC/RESET#	94	A6	119	NC/ODT1	144	VSS	169	DQS6	194	DQ63
20	DQ12	45	DQ17	70	DQS3	95	VDD	120	NC/S3#	145	VSS	170	DM6	195	SDA
21	VSS	46	DQ21	71	VSS	96	VDD	121	VSS	146	DQS5	171	VSS	196	VSS
22	DQ13	47	VSS	72	VSS	97	A5	122	VSS	147	DM5	172	VSS	197	SCL
23	DQ8	48	VSS	73	DQ26	98	A4	123	DQ32	148	DQS	173	DQ50	198	SA0
24	VSS	49	DQS2	74	DQ30	99	A3	124	DQ36	149	VSS	174	DQ54	199	VDDSPD
25	DQ9	50	Event	75	DQ27	100	A2	125	DQ33	150	VSS	175	DQ51	200	SA1

M002/M003/M004 ELECTRICAL COMPONENT LAYOUT (1/3)



m002v352a

Fig.-1

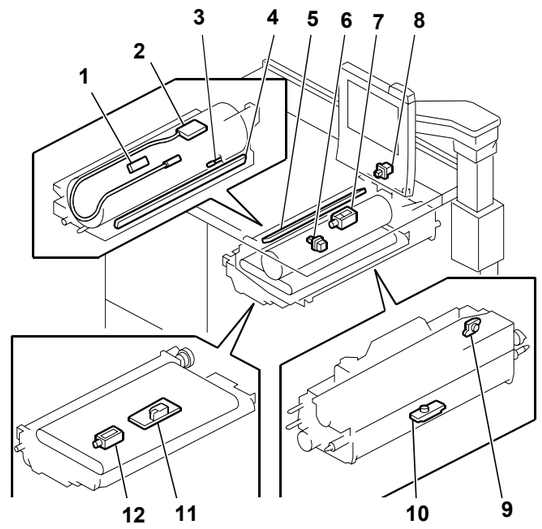


Fig.-2

m002v360

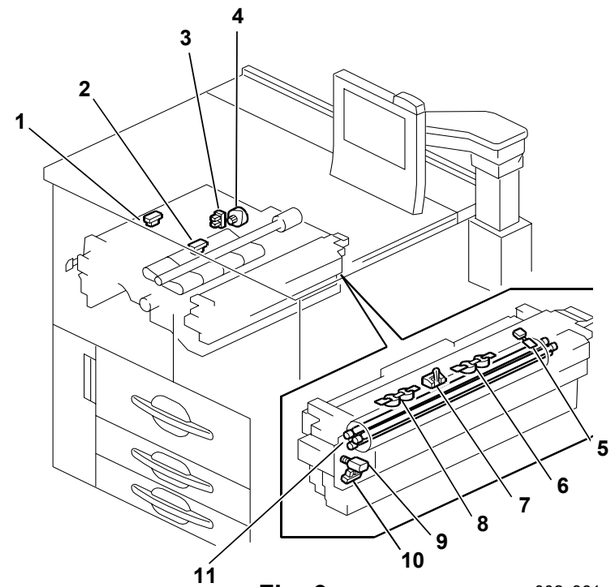


Fig.-3

m002v361

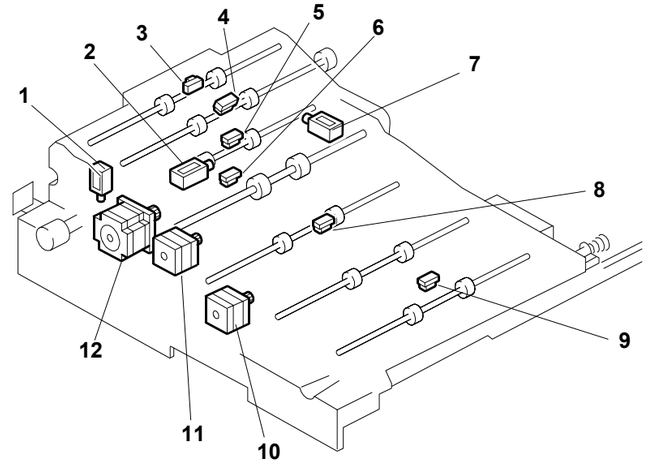


Fig.-4

b234v362

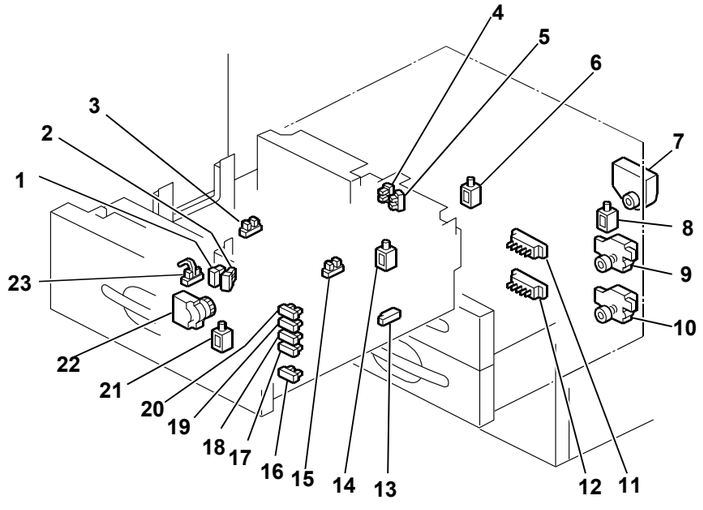


Fig.-5

d059v358

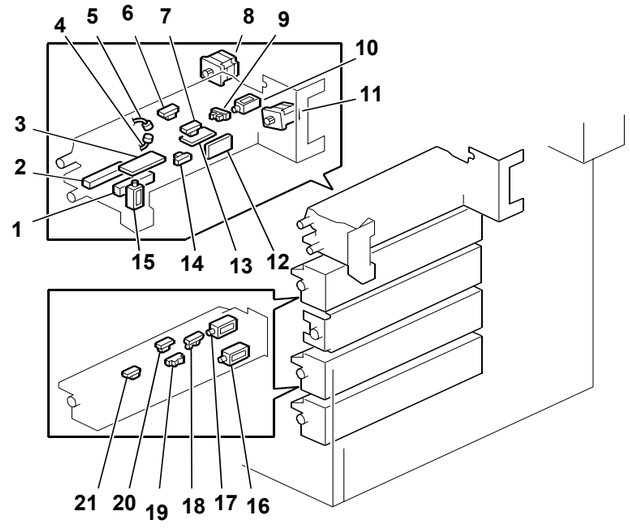


Fig.-6

d059v359

M002/M003/M004 ELECTRICAL COMPONENT LAYOUT (2/3)

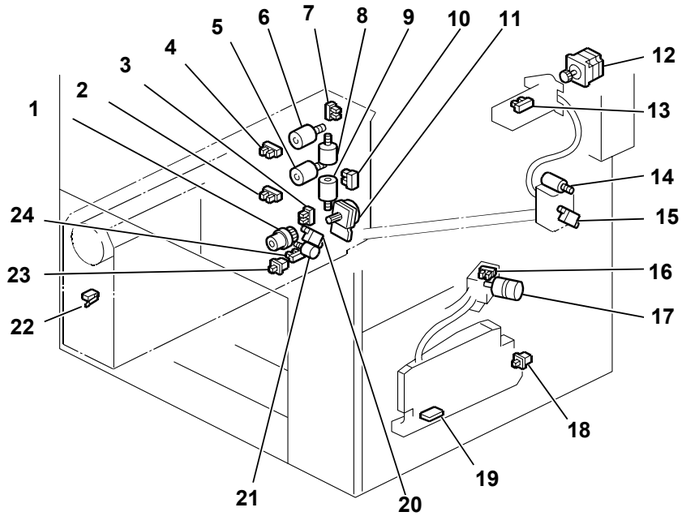


Fig.-7 d059v357

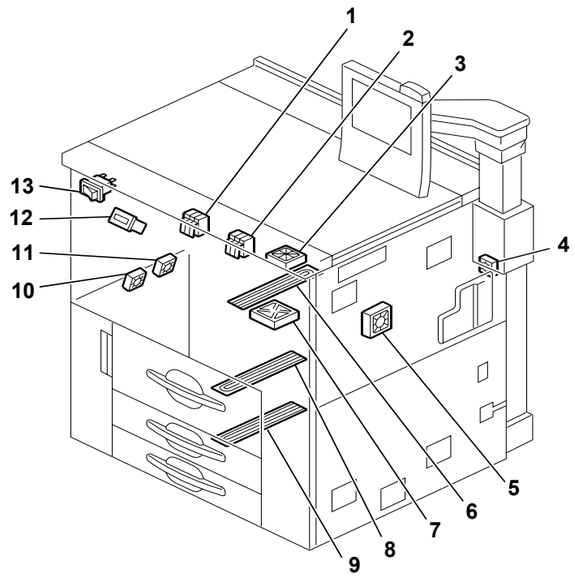


Fig.-8 m002v353

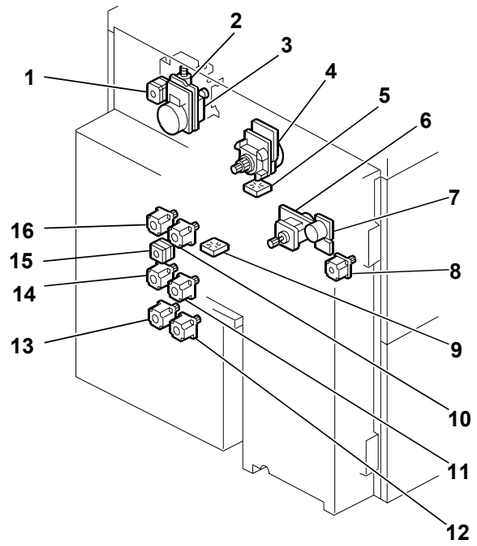


Fig.-9 m002v356

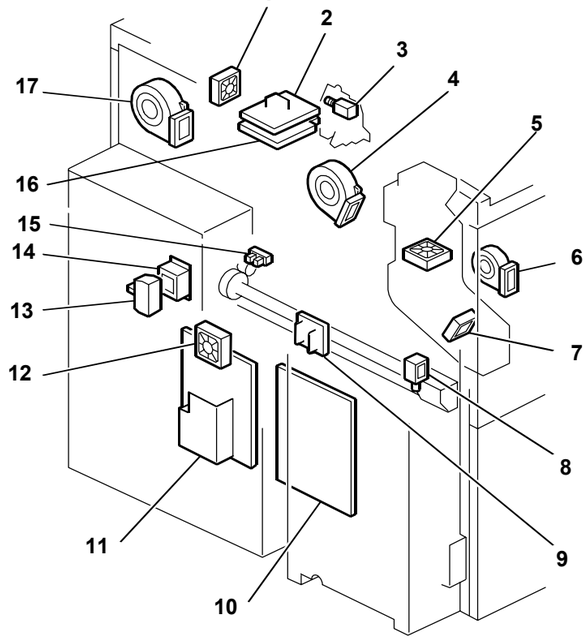


Fig.-10 d059v355

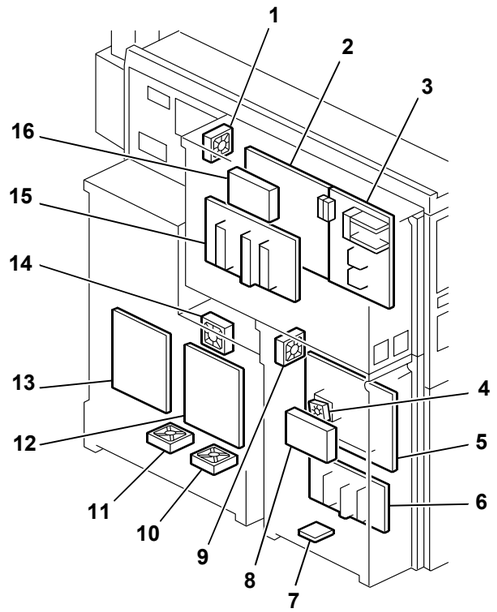


Fig.-11 m002v354

M002/M003/M004 ELECTRICAL COMPONENT LAYOUT (3/3)

Symbol	Index No.	Description	P to P
Clutches			
CL1	F7-1	Toner Supply Coil Clutch	F9 (2/3)
Heaters			
H1	F8-6	Transfer Anti-Condensation Heater	A6 (2/3)
H2	F8-8	Tray Anti-Condensation Heater 1 (Upper)	A6 (2/3)
H3	F8-9	Tray Anti-Condensation Heater 2 (Lower)	A6 (2/3)
H4	-	LCT Anti-Condensation Heater	A6 (2/3)
Lamps			
L1	F2-4	PTL	C2 (2/3)
L2	F3-11	Fusing Heater 1	A4 (2/3)
L3	F3-11	Fusing Heater 2	A4 (2/3)
L4	F3-11	Fusing Heater 3	A4 (2/3)
QL1	F2-5	Quenching Lamp	D7 (2/3)
Motors			
M1	F1-6	Polygon Mirror Motor	F6 (1/3)
M2	F3-4	Exit Junction Gate Motor	A2 (2/3)
M3	F10-6	Moisture Removal Fan	B2 (2/3)
M4	-	Paper Dehumidifier Fan	B2 (2/3)
M5	F8-10	Duplex Entrance Cooling Fan 1	B2 (2/3)
M6	F8-11	Duplex Entrance Cooling Fan 2	B2 (2/3)
M7	F8-7	Duplex Cooling Fan	B2 (2/3)
M8	F10-3	Charge Corona Wire Cleaner Motor	B2 (2/3)
M9	F10-7	Paper Cooling Pipe Fan 1	B2 (2/3)
M10	F10-5	Paper Cooling Pipe Fan 2	B2 (2/3)
M11	F10-1	Power Pack Fan	B2 (2/3)
M12	F10-12	Toner Collection Unit Cooling Fan	D2 (2/3)
M13	F9-8	Duplex Entrance Motor	D2 (2/3)
M14	F4-12	Duplex/Inverter Motor	E2 (2/3)
M15	F4-10	Duplex Transport Motor	E2 (2/3)
M16	F4-11	Switchback Motor	E2 (2/3)
M17	F6-8	Registration Motor	F4 (2/3)
M18	F6-11	Upper Relay Motor	F4 (2/3)
M19	F7-12	Toner Supply Pump Motor	F4 (2/3)
M20	F7-17	Toner Suction Motor	B4 (2/3)
M21	F8-4	Development Unit Cooling Fan Motor 1	B4 (2/3)
M22	F8-5	Development Unit Cooling Fan Motor 2	B4 (2/3)
M23	F9-1	Toner Supply Motor	C4 (2/3)
M24	F9-9	Transport Motor Cooling Fan	C4 (2/3)
M25	F10-17	Drum Cooling Fan	C4 (2/3)
M26	F9-5	Drum Transport Pipe Cooling Fan	D4 (2/3)
M27	F7-14	Toner Cylinder Agitator Motor	D4 (2/3)
M28	F9-3	Development Motor	D4 (2/3)
M29	F9-2	Hopper Agitator Motor	D4 (2/3)
M30	F9-7	Exit Motor	D5 (2/3)
M31	F9-6	Fusing Motor	D5 (2/3)
M32	F3-9	Cleaning Fabric Motor	D5 (2/3)
M33	F11-14	PSU Box Fan 3	B5 (2/3)
M34	F11-10	PSU Box Fan 1	C5 (2/3)
M35	F11-11	PSU Box Fan 2	C5 (2/3)
M36	F10-4	Drum Exhaust Fan	D6 (2/3)
M37	F1-1	Polygon Mirror Motor Cooling Fan	D7 (2/3)
M38	F8-3	Cleaning Unit Cooling Fan	D7 (2/3)
M39	F9-4	Drum Motor	D7 (2/3)
M40	F5-7	1st Tray Lift Motor	D8 (2/3)
M41	F5-9	2nd Tray Lift Motor	D8 (2/3)
M42	F5-10	3rd Tray Lift Motor	D8 (2/3)
M43	F1-4	Scanner Exhaust Fan	B8 (2/3)
M44	F9-16	1st Transport Motor	F6 (2/3)
M45	F9-15	Vertical Relay Motor	F6 (2/3)
M46	F9-14	2nd Transport Motor	F6 (2/3)
M47	F9-13	3rd Transport Motor	F6 (2/3)
M48	F9-10	1st Paper Feed Motor	F6 (2/3)
M49	F9-11	2nd Paper Feed Motor	F7 (2/3)
M50	F9-12	3rd Paper Feed Motor	F7 (2/3)
M51	F5-22	Rear Fence Drive Motor	F8 (2/3)
M52	F7-6	Upper Bottle Cap Motor	F9 (2/3)
M53	F7-8	Upper Toner Bottle Motor	F9 (2/3)
M54	F7-5	Lower Bottle Cap Motor	F9 (2/3)
M55	F7-9	Lower Toner Bottle Motor	F9 (2/3)
M56	F7-11	Toner Bank Motor	F9 (2/3)
M57	F7-21	Toner Collection Bottle Agitator Motor	F9 (2/3)
M58	F11-9	Egret Controller Cooling Fan	D2 (3/3)
M59	F11-4	Egret CPU Fan	D2 (3/3)
M60	-	GW Controller CPU Fan	D9 (3/3)
M61	F11-1	GW Controller Board Fan	D9 (3/3)
PCBs			
PCB1	F11-2	BICU	C4 (1/3)
PCB2	F1-5	Operation Panel Unit	C7 (1/3)
PCB3	F1-2	LDB	F4 (1/3)
PCB4	F1-7	Laser Synchronization Detector Board	G4 (1/3)
PCB5	F1-3	Polygon Mirror Motor Control Board	F5 (1/3)
PCB6	F6-13	Image Position Sensor Board (Duplex)	E2 (2/3)
PCB7	F6-3	URB	E2 (2/3)
PCB8	F6-12	Image Position Sensor Board (Tray	F2 (2/3)
PCB9	F10-10	IOB	E3 (2/3)
PCB10	F10-11	AC Drive Board	A5 (2/3)
PCB11	F11-13	PSU-E-A	B6 (2/3)
PCB12	F11-15	PSU-C	A8 (2/3)
PCB13	F10-9	Interlock Relay Board	C5 (2/3)
PCB14	F11-12	PSU-E-B	C6 (2/3)
PCB15	F11-5	Egret Controller Board	C2 (3/3)
PCB16	F11-7	Trigger Board	C5 (3/3)
PCB17	F11-6	Egret Controller PSU	D4 (3/3)
PCB18	F11-3	GW Controller Board	C6 (3/3)
Power Packs			
PP1	F2-11	Transfer Power Pack	D5 (2/3)
PP2	F10-16	CGB Power Pack	D6 (2/3)
PP3	F10-2	PPG Power Pack	D6 (2/3)
Sensors			
S1	F3-1	Exit Sensor	A2 (2/3)
S2	F3-2	Job Time Sensor	A2 (2/3)
S3	F3-3	Exit Junction Gate HP Sensor	A2 (2/3)
S4	F2-1	ID Sensor	C2 (2/3)
S5	F2-2	Drum Potential Sensor	C2 (2/3)
S6	F4-9	Duplex Transport Sensor 3	D2 (2/3)
S7	F4-3	Duplex Inverter Relay Sensor	D2 (2/3)
S8	F4-4	Duplex Entrance Sensor	D2 (2/3)
S9	F4-5	Duplex Inverter Sensor	D2 (2/3)
S10	F4-6	Duplex Transport Sensor 1	D2 (2/3)
S11	F4-8	Duplex Transport Sensor 2	D2 (2/3)
S12	F6-2	Image Position Sensor (Duplex)	E1 (2/3)
S13	F6-6	Registration Sensor	E1 (2/3)
S14	F6-5	Double-Feed Sensor: E	F1 (2/3)
S15	F6-4	Double-Feed Sensor: R	F1 (2/3)
S16	F6-9	Guide Plate Open/Close Sensor	F2 (2/3)
S17	F6-14	Main Machine Relay Sensor	F2 (2/3)
S18	F6-7	LCIT Relay Sensor	F2 (2/3)
S19	F6-1	Image Position Sensor (Bank)	F1 (2/3)
S20	F7-16	Toner Suction Fan Sensor	B4 (2/3)
S21	F2-10	TD Sensor	B4 (2/3)
S22	F2-9	Toner Hopper Sensor	B4 (2/3)
S23	F7-13	Toner Pump Motor Sensor	C4 (2/3)
S24	F7-15	Toner End Sensor	C4 (2/3)
S25	F10-15	Toner Collection Coil Sensor	D5 (2/3)
S26	F3-10	Cleaning Fabric End Sensor	D5 (2/3)
S27	F3-7	Fusing Exit Sensor	D5 (2/3)
S28	F5-12	3rd Tray Paper Size Sensor	D8 (2/3)
S29	F5-11	2nd Tray Paper Size Sensor	D9 (2/3)
S30	F7-19	Temperature/Humidity Sensor	D9 (2/3)
S31	F6-21	1st Paper Feed Sensor	F4 (2/3)
S32	F6-20	1st Paper End Sensor	F4 (2/3)
S33	F6-18	1st Tray Lift Sensor	F4 (2/3)
S34	F6-19	Vertical Transport Sensor 1	F4 (2/3)
S35	F6-21	2nd Paper Feed Sensor	F5 (2/3)
S36	F6-20	2nd Paper End Sensor	F5 (2/3)
S37	F6-18	2nd Tray Lift Sensor	F5 (2/3)
S38	F6-19	Vertical Transport Sensor 2	F5 (2/3)
S39	F6-21	3rd Paper Feed Sensor	F5 (2/3)
S40	F6-20	3rd Paper End Sensor	F5 (2/3)
S41	F6-18	3rd Tray Lift Sensor	F5 (2/3)
S42	F6-19	Vertical Transport Sensor 3	F5 (2/3)
S43	F5-2	Front Side Fence Open Sensor	F7 (2/3)
S44	F5-1	Front Side Fence Closed Sensor	F7 (2/3)
S45	F5-5	Rear Side Fence Open Sensor	F7 (2/3)
S46	F5-4	Rear Side Fence Closed Sensor	F7 (2/3)
S47	F5-16	Lower Limit Sensor	F7 (2/3)
S48	F5-20	1st Tray Paper Height 1 Sensor	F7 (2/3)
S49	F5-19	1st Tray Paper Height 2 Sensor	F8 (2/3)
S50	F5-18	1st Tray Paper Height 3 Sensor	F8 (2/3)
S51	F5-17	1st Tray Paper Height 4 Sensor	F8 (2/3)
S52	F5-13	Right Tray Paper Set Sensor	F8 (2/3)
S53	F5-3	Rear Fence HP Sensor	F8 (2/3)
S54	F5-15	Rear Fence Return Sensor	F8 (2/3)
S55	F5-23	Left 1st Tray Paper Sensor	F8 (2/3)
S56	F7-4	Upper Toner Bottle Sensor	F9 (2/3)
S57	F7-7	Upper Toner Bottle Inner Cap Sensor	F9 (2/3)
S58	F7-2	Lower Toner Bottle Sensor	F9 (2/3)
S59	F7-10	Lower Bottle Inner Cap Sensor	F9 (2/3)
S60	F7-3	Toner Collection Bottle Overflow Sensor	F9 (2/3)
S61	F7-24	Toner Collection Bottle Agitator Sensor	F9 (2/3)
S62	F7-20	Toner Bottle End Sensor	F9 (2/3)
Solenoids			
SOL1	F10-8	Toner Recycling Shutter Solenoid	B2 (2/3)
SOL2	F4-2	Switchback Idle Roller Solenoid	D2 (2/3)
SOL3	F4-7	Switchback Junction Gate Solenoid	D2 (2/3)
SOL4	F4-1	Duplex/Inverter Junction Gate Solenoid	D2 (2/3)
SOL5	F6-15	LCT Guide Plate Solenoid	F2 (2/3)
SOL6	F6-10	Guide Plate Solenoid	D4 (2/3)
SOL7	F2-12	Transfer Belt Lift Solenoid	D6 (2/3)
SOL8	F2-7	2nd Cleaning Blade Solenoid	D7 (2/3)
SOL9	F5-6	Left Tandem Tray Lock Solenoid	D8 (2/3)
SOL10	F5-8	Tandem Tray Connect Solenoid	D8 (2/3)
SOL11	F6-17	1st Pick-up Solenoid	F4 (2/3)
SOL12	F6-16	1st Separation Roller Solenoid	F4 (2/3)
SOL13	F6-17	2nd Pick-up Solenoid	F5 (2/3)
SOL14	F6-16	2nd Separation Roller Solenoid	F5 (2/3)
SOL15	F6-17	3rd Pick-up Solenoid	F5 (2/3)
SOL16	F6-16	3rd Separation Roller Solenoid	F5 (2/3)
SOL17	F5-21	Front Side Fence Solenoid	F7 (2/3)
SOL18	F5-14	Rear Side Fence Solenoid	F7 (2/3)
Switches			
SW1	F8-1	Left Front Door Safety Switch	G4 (1/3)
SW2	F8-2	Right Front Door Safety Switch	G4 (1/3)
SW3	F2-8	Cleaning Unit Set SW	B2 (2/3)
SW4	F8-2	Right Front Door Safety Switch 2	C2 (2/3)
SW5	F8-1	Left Front Door Safety Switch 2	C2 (2/3)
SW6	F7-22	Toner Bottle Front Door SW	G3 (2/3)
SW7	F2-6	2nd Cleaning Blade Release Switc	D7 (2/3)
SW8	F7-18	Toner Suction Bottle Set Switch	D9 (2/3)
SW9	F10-13	Circuit Breaker	A4 (2/3)
SW10	F8-13	Main Power Switch	B6 (2/3)
SW11	F7-23	Toner Collection Bottle Set Switch	F9 (2/3)
TC			
TC1	F8-12	Total Counter	D7 (2/3)
TH			
TH1	F3-5	Thermistor (Fusing Unit)	A4 (2/3)
TH2	F2-3	Thermistor (Drum Unit)	C2 (2/3)
TS			
TS1	F3-8	Thermostat 1	A4 (2/3)
TS2	F3-8	Thermostat 2	A4 (2/3)
TS3	F3-6	Thermostat 3	A4 (2/3)
TS4	F3-6	Thermostat 4	A4 (2/3)
Other			
HDD1	F11-8	Egret HDD	D3 (3/3)
HDD2	F11-16	GW Controller HDD	D8 (3/3)
NF1	F10-14	Noise Filter	A5 (2/3)

D452 Point to Point Diagram

Main Control Board
(PCB1)

Mainframe

Multi Bypass Tray (B833)

Image Position
Sensor Board
(PCB2)

Tray Heater 1 (OP)
230V/16W

Tray Heater 2 (OP)
230V/16W

PSU

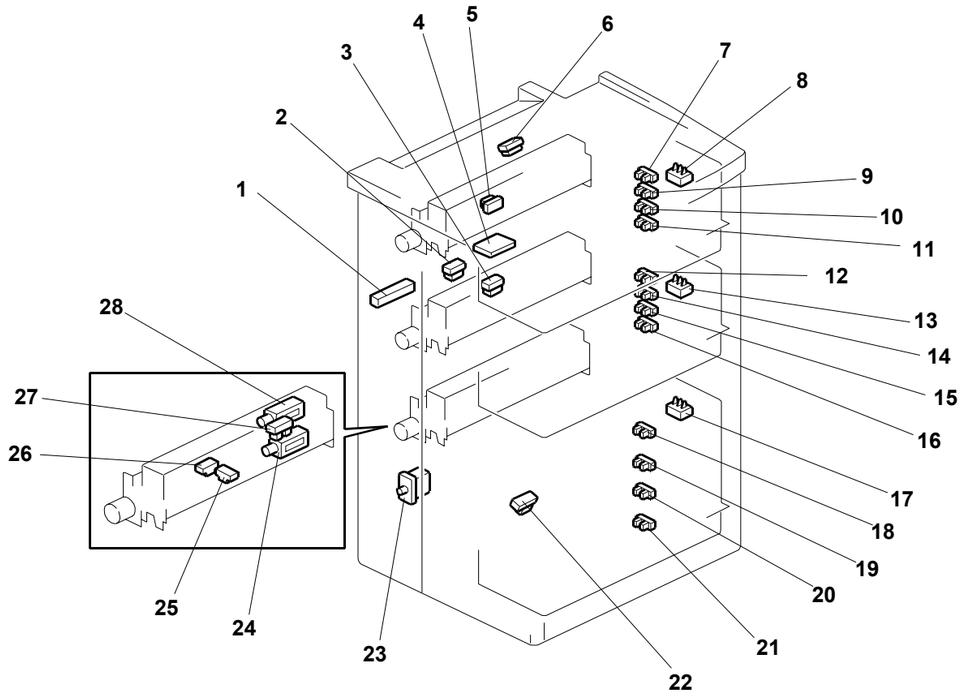
4th Grip Motor
4th Transport Motor
4th Paper Feed Motor
5th Grip Motor
5th Transport Motor
5th Paper Feed Motor
LCT Exit Motor
6th Grip Motor
6th Transport Motor
6th Paper Feed Motor
4th Lift Motor
5th Lift Motor
6th Lift Motor
LCT Cooling Fan Motor
7th Transport Motor (Bypass)
7th Paper Feed Motor (Bypass)
Relay Motor (1st Bypass Tray)

LCT Image Position Sensor
LCT Exit Sensor
4th Relay Sensor
5th Transport Sensor
4th Transport Sensor
6th Transport Sensor
4th Paper Width Sensor 1
4th Paper Height Sensor 1
4th Paper Height Sensor 2
4th Paper Height Sensor 3
4th Paper Height Sensor 4
4th Pick-up Solenoid
4th Separation Solenoid
4th Tray Set Detection
4th Paper Feed Sensor
4th Paper End Sensor
4th Lift Sensor
5th Paper Width Sensor 1
5th Pick-up Solenoid
5th Separation Solenoid
5th Tray Set Detection
5th Paper Feed Sensor
5th Paper End Sensor
5th Lift Sensor
6th Paper Width Sensor 1
6th Paper Height Sensor 1
6th Paper Height Sensor 2
6th Paper Height Sensor 3
6th Paper Height Sensor 4
6th Pick-up Solenoid
6th Separation Solenoid
6th Tray Set Detection
6th Paper Feed Sensor
6th Paper End Sensor
6th Lift Sensor

Door Safety Switch

▼ :Low Active
▲ :High Active
----- :Pulse
→ :Signal Direction

D452 ELECTRICAL COMPONENT LAYOUT



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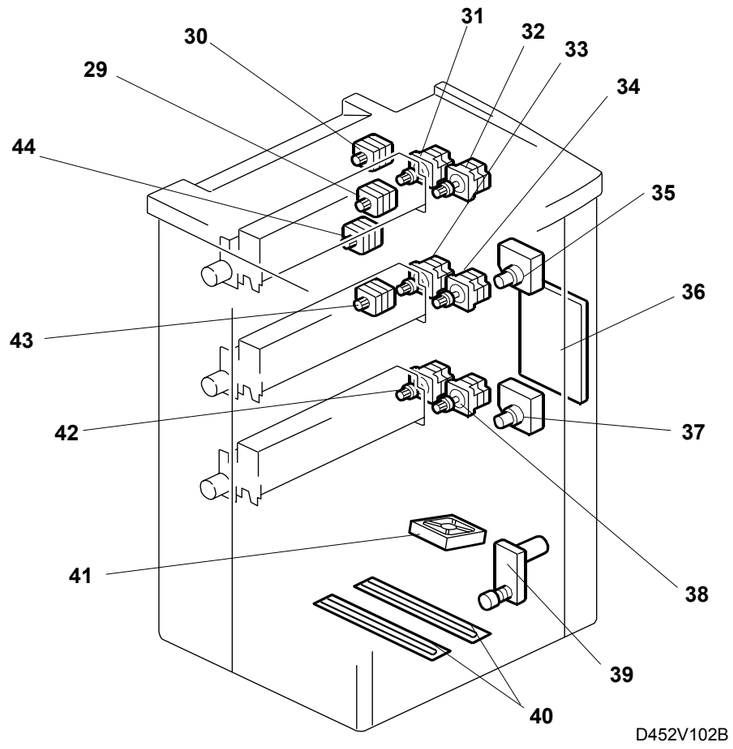
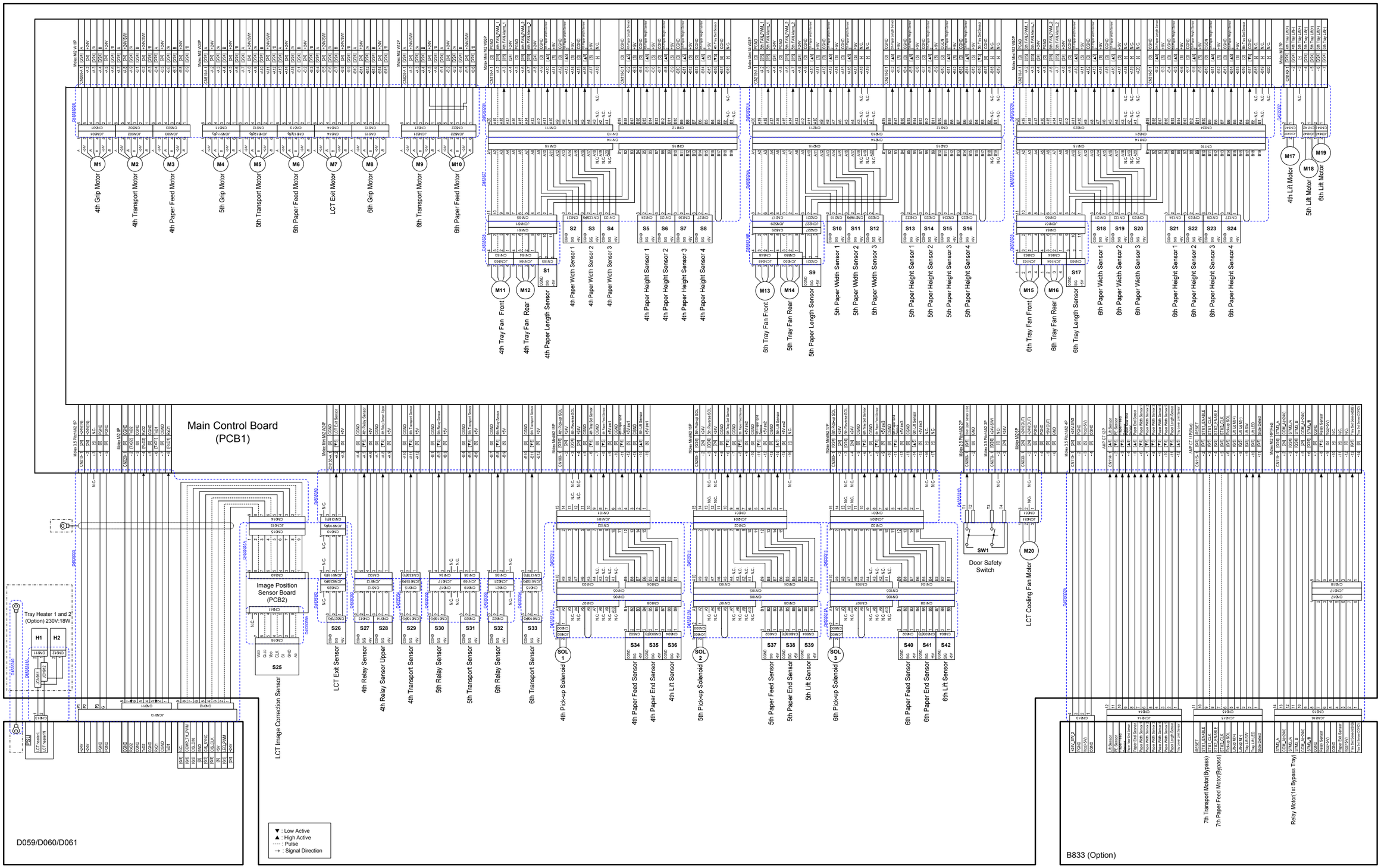


D452V102B

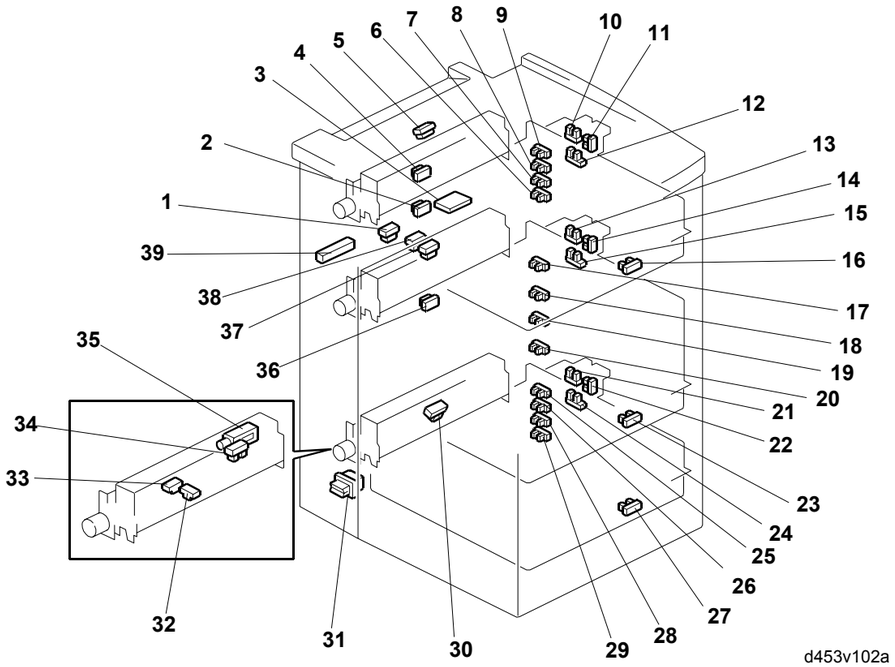
Symbol	Index No.	Description	P to P
Motors			
M1	31	4th Grip Motor	C2
M2	30	4th Transport Motor	C2
M3	32	4th Paper Feed Motor	C2
M4	33	5th Grip Motor	C2
M5	29	5th Transport Motor	C3
M6	34	5th Paper Feed Motor	C3
M7	44	LCT Exit Motor	C3
M8	42	6th Grip Motor	C3
M9	43	6th Transport Motor	C4
M10	38	6th Paper Feed Motor	C4
M11	35	4th Lift Motor	C10
M12	37	5th Lift Motor	C10
M13	39	6th Lift Motor	C10
M14	41	LCT Cooling Fan Motor	E8
PCBs			
PCB1	36	Main Control Board	D2-3
PCB2	4	Image Position Sensor	E3
Sensors			
S1	8	4th Paper Width Sensor	B5
S2	11	4th Paper Height Sensor 1	B5
S3	10	4th Paper Height Sensor 2	B5
S4	9	4th Paper Height Sensor 3	B6
S5	7	4th Paper Height Sensor 4	B6
S6	13	5th Paper Width Sensor	B6
S7	16	5th Paper Height Sensor 1	B7
S8	15	5th Paper Height Sensor 2	B7
S9	14	5th Paper Height Sensor 3	B7
S10	12	5th Paper Height Sensor 4	B7
S11	17	6th Paper Width Sensor	B8
S12	21	6th Paper Height Sensor 1	B9
S13	20	6th Paper Height Sensor 2	B9
S14	19	6th Paper Height Sensor 3	B9
S15	18	6th Paper Height Sensor 4	B9
S16	1	LCT Image Position Sensor	E3
S17	2	LCT Exit Sensor	E3
S18	5	4th Relay Sensor	E4
S19	3	5th Transport Sensor	E4
S20	6	4th Transport Sensor	E4
S21	22	6th Transport Sensor	E4
S22	26	4th Paper Feed Sensor	E5
S23	25	4th Paper End Sensor	E5
S24	27	4th Lift Sensor	E5
S25	26	5th Paper Feed Sensor	E6
S26	25	5th Paper End Sensor	E6
S27	27	5th Lift Sensor	E6
S28	26	6th Paper Feed Sensor	E7
S29	25	6th Paper End Sensor	E7
S30	27	6th Lift Sensor	E7

Symbol	Index No.	Description	P to P
Solenoids			
SOL1	28	4th Pick-up Solenoid	E4
SOL2	24	4th Separation Solenoid	E5
SOL3	28	5th Pick-up Solenoid	E5
SOL4	24	5th Separation SOL	E5
SOL5	28	6th Pick-up Solenoid	E6
SOL6	24	6th Separation Solenoid	E6
Switches			
SW1	23	Door Safety Switch	E7
Other			
H1, H2	40	Tray Heaters	E1

D453 POINT TO POINT DIAGRAM



D453 ELECTRICAL COMPONENT LAYOUT



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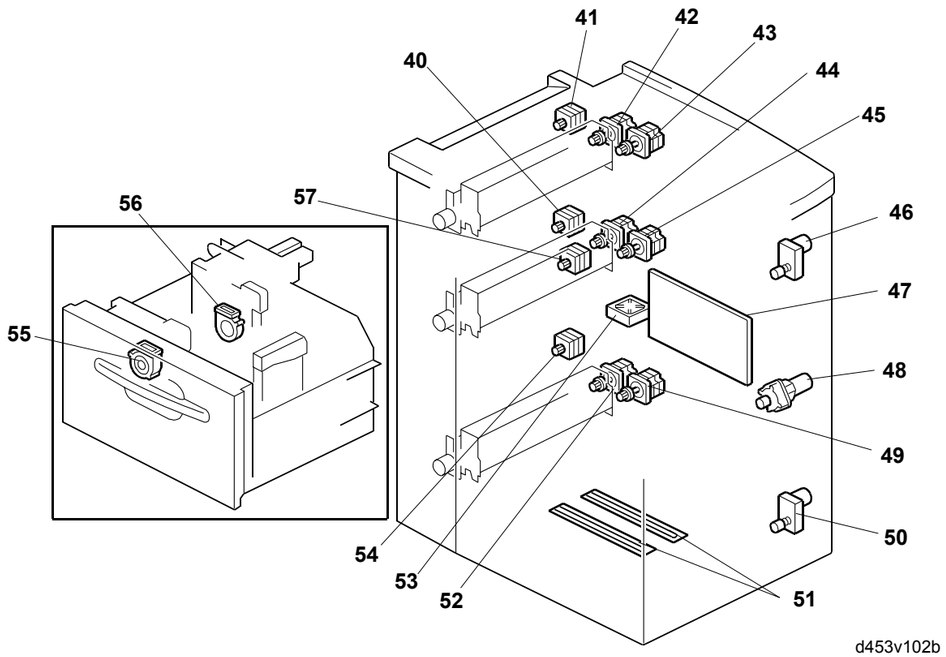
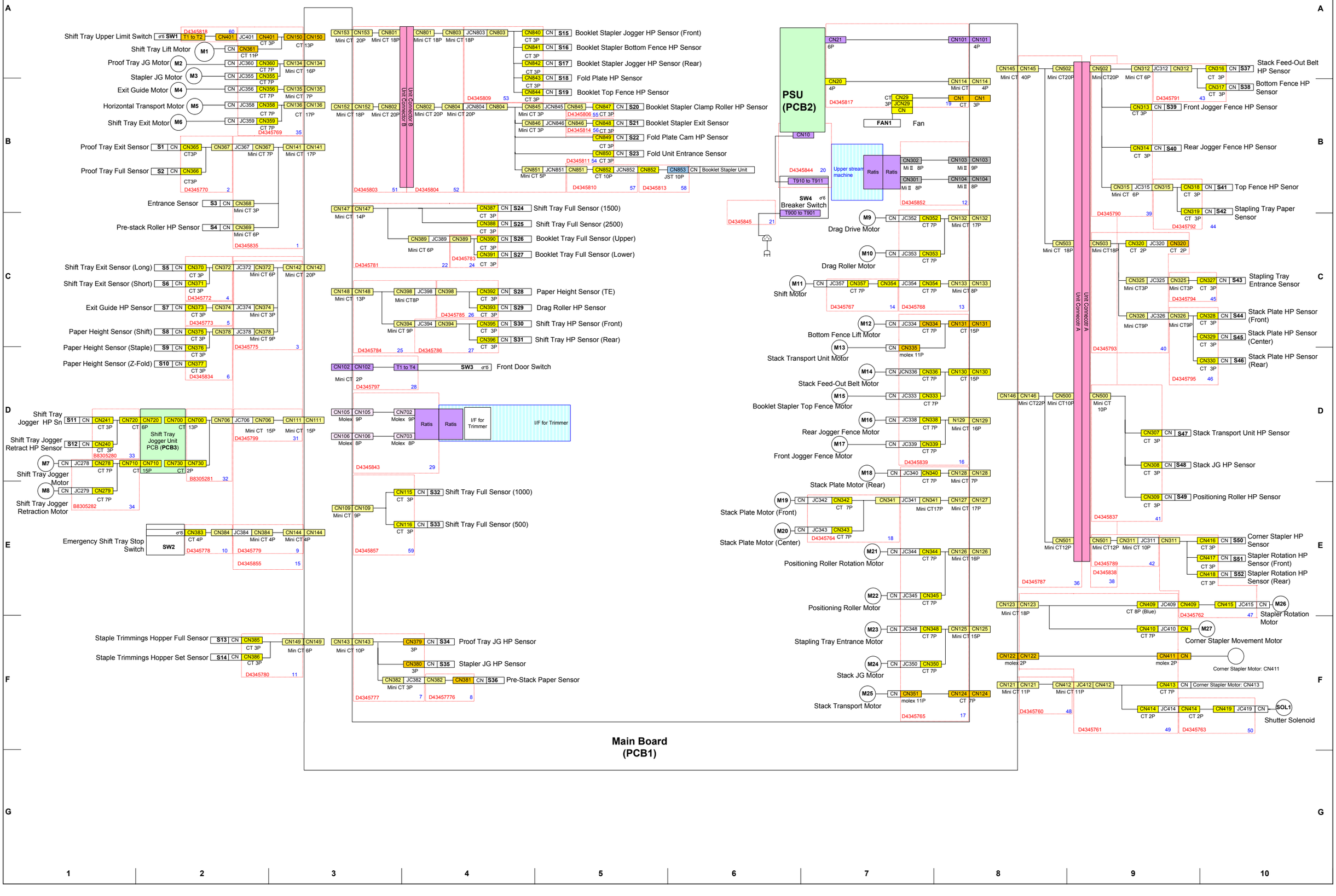


d453v102b

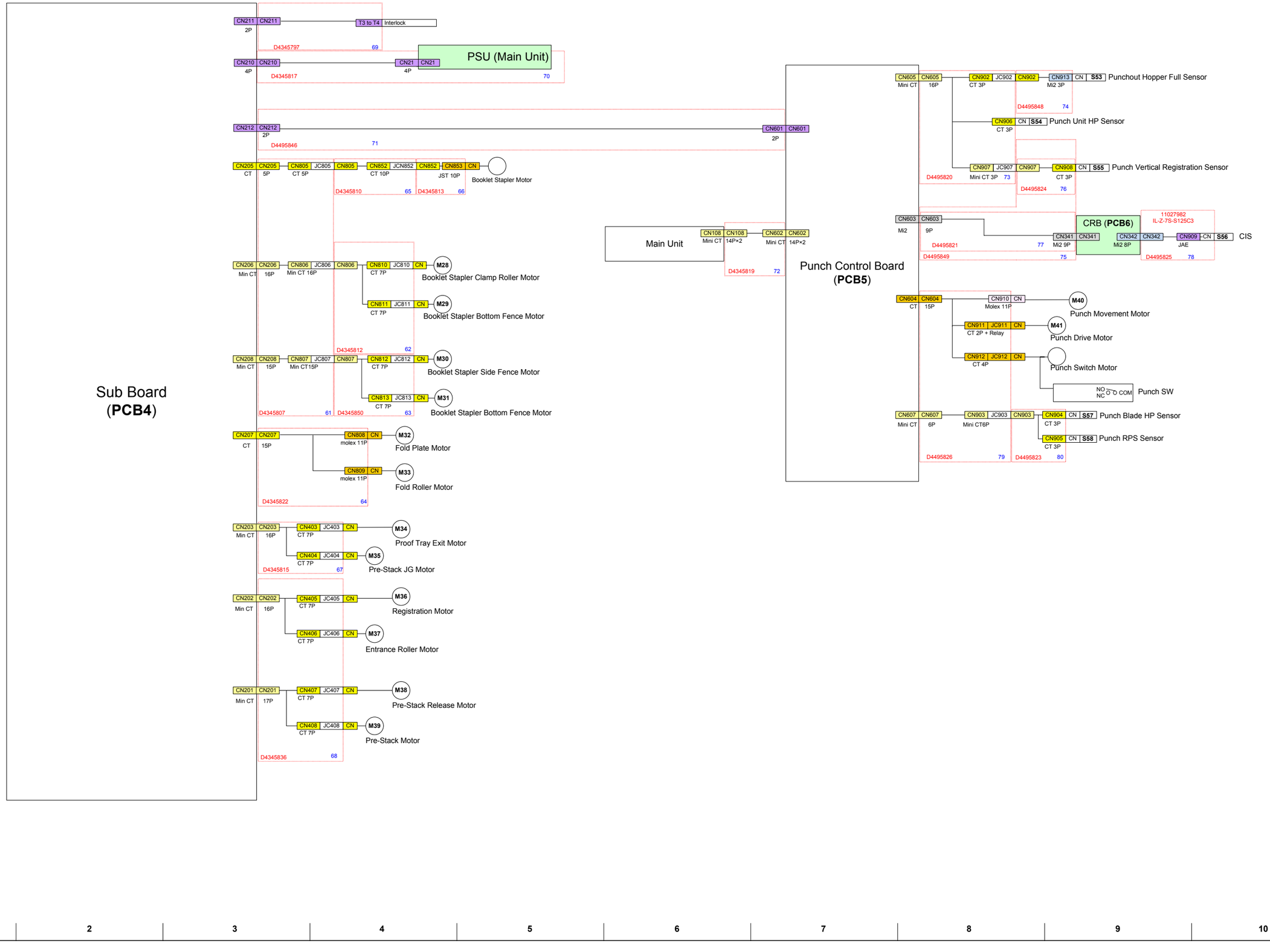
Symbol	Index No.	Description	P to P
Motors			
M1	42	4th Grip Motor	B1
M2	41	4th Transport Motor	B2
M3	43	4th Paper Feed Motor	B2
M4	44	5th Grip Motor	B2
M5	40	5th Transport Motor	B3
M6	47	5th Paper Feed Motor	B3
M7	57	LCT Exit Motor	B3
M8	52	6th Grip Motor	B3
M9	54	6th Transport Motor	B4
M10	49	6th Paper Feed Motor	B4
M11	55	4th Tray Fan: Front	C4
M12	56	4th Tray Fan: Rear	C4
M13	55	5th Tray Fan: Front	C6
M14	56	5h Tray Fan: Rear	C6
M15	55	6th Tray Fan: Front	C8
M16	56	6th Tray Fan: Rear	C8
M17	46	4th Lift Motor	B10
M18	48	5th Lift Motor	B10
M19	50	6th Lift Motor	B10
M20	53	LCT Cooling Fan Motor	E8
PCBs			
PCB1	47	Main Control Board	D2–3
PCB2	3	Image Position Sensor Board	E3
Sensors			
S1	16	4th Paper Length Sensor	C4
S2	12	4th Paper Width Sensor 1	C5
S3	11	4th Paper Width Sensor 2	C5
S4	10	4th Paper Width Sensor 3	C5
S5	9	4th Paper Height Sensor 1	C5
S6	8	4th Paper Height Sensor 2	C5
S7	7	4th Paper Height Sensor 3	C5
S8	6	4th Paper Height Sensor 4	C6
S9	23	5th Paper Length Sensor	C6
S10	15	5th Paper Width Sensor 1	C7
S11	14	5th Paper Width Sensor 2	C7
S12	13	5th Paper Width Sensor 3	C7
S13	20	5th Paper Height Sensor 1	C7
S14	19	5th Paper Height Sensor 2	C7
S15	18	5th Paper Height Sensor 3	C7
S16	17	5th Paper Height Sensor 4	C7
S17	27	6th Paper Length Sensor	C8
S18	24	6th Paper Width Sensor 1	C8
S19	22	6th Paper Width Sensor 2	C8
S20	21	6th Paper Width Sensor 3	C9
S21	29	6th Paper Height Sensor 1	C9
S22	28	6th Paper Height Sensor 2	C9
S23	26	6th Paper Height Sensor 3	C9
S24	25	6th Paper Height Sensor 4	C9
S25	39	LCT Image Position Sensor	F3

Symbol	Index No.	Description	P to P
S26	1	LCT Exit Sensor	F3
S27	2	4th Relay Sensor	F3
S28	4	4th Relay Sensor - Upper	F3
S29	5	4th Transport Sensor	F4
S30	38	5th Relay Sensor	F4
S31	37	5th Transport Sensor	F4
S32	36	6th Relay Sensor	F4
S33	30	6th Transport Sensor	F4
S34	33	4th Paper Feed Sensor	F5
S35	32	4th Paper End Sensor	F5
S36	34	4th Lift Sensor	F5
S37	33	5th Paper Feed Sensor	F6
S38	32	5th Paper End Sensor	F6
S39	34	5th Lift Sensor	F6
S40	33	6th Paper Feed Sensor	F7
S41	32	6th Paper End Sensor	F7
S42	34	6th Lift Sensor	F7
Solenoids			
SOL1	35	4th Pick-up Solenoid	F5
SOL2	35	5th Pick-up Solenoid	F6
SOL3	35	6th Pick-up Solenoid	F7
Switch			
SW1	31	Door Safety Switch	E8
Others			
H1, H2	51	Anti-Condensation Heaters	F1

D434 POINT TO POINT DIAGRAM (1/2)



D434 POINT TO POINT DIAGRAM (2/2)



D434 ELECTRICAL COMPONENT LAYOUT (1/2)

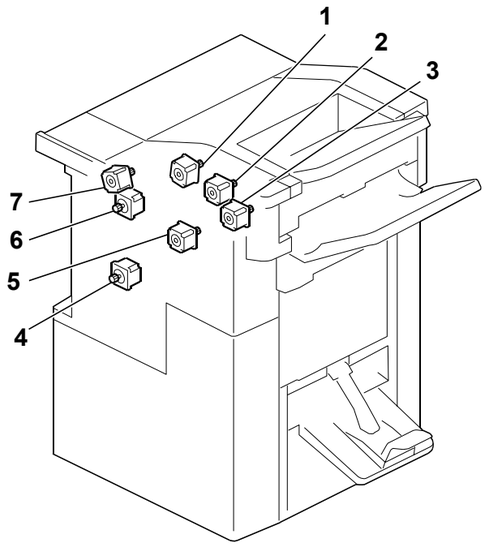


Fig.-1 d434d201

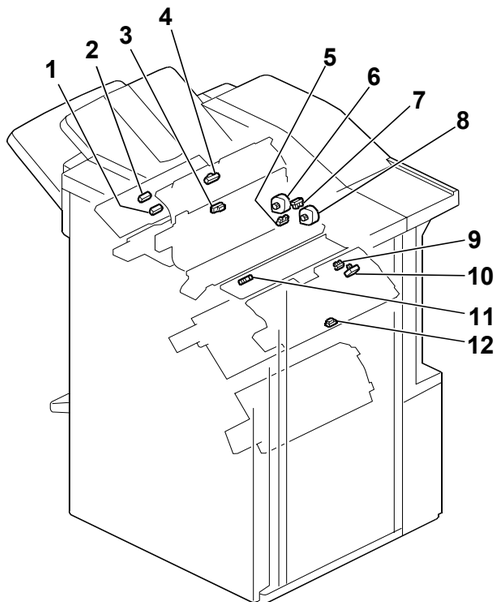


Fig.-2 d434d202

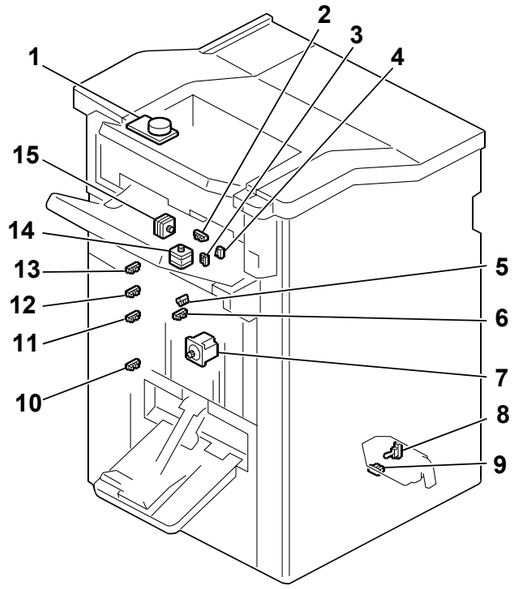


Fig.-3 d434d203

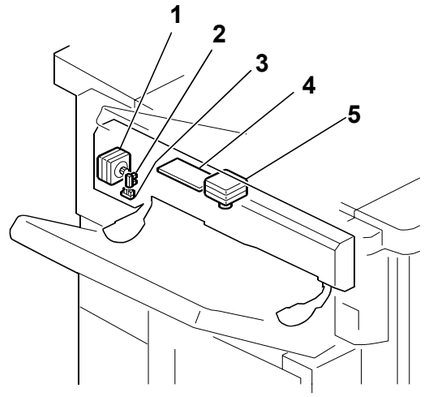


Fig.-4 d434d204

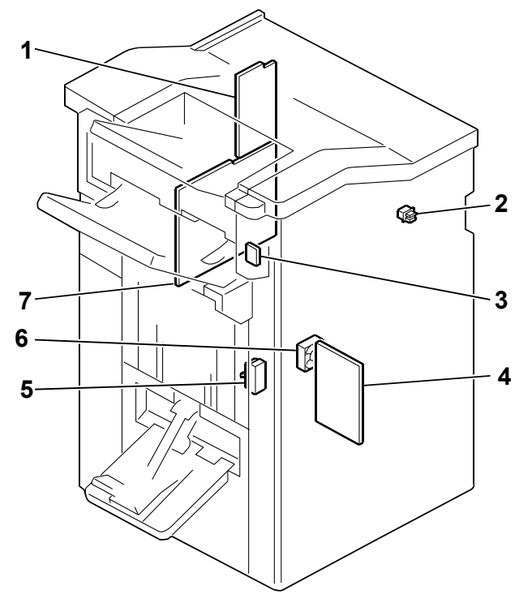


Fig.-5 d434d205

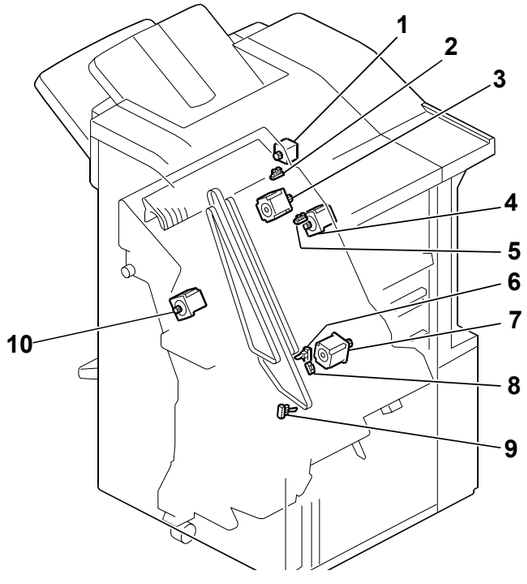


Fig.-6 d434d206

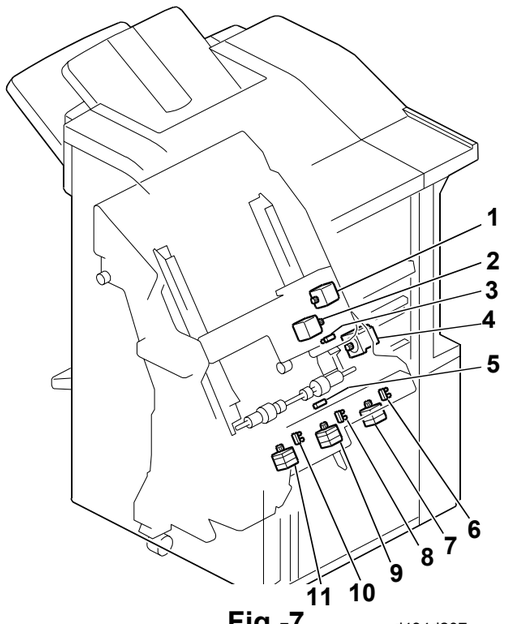


Fig.-7 d434d207

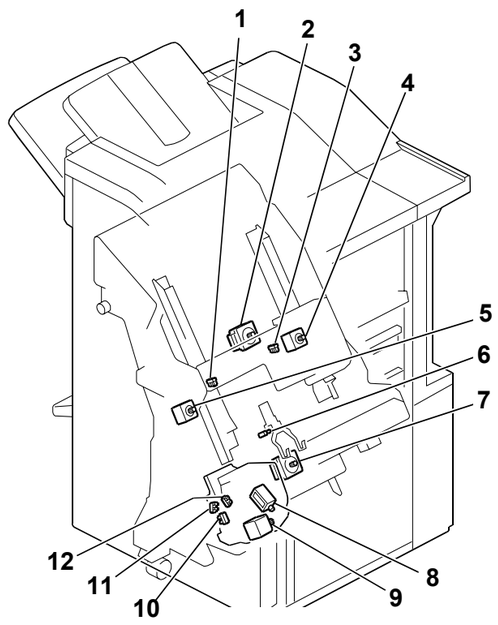


Fig.-8 d434d208

D434 ELECTRICAL COMPONENT LAYOUT (2/2)

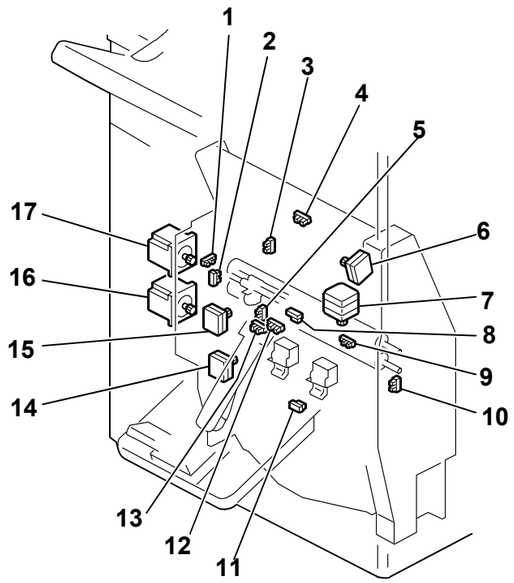


Fig.-9 d434d209

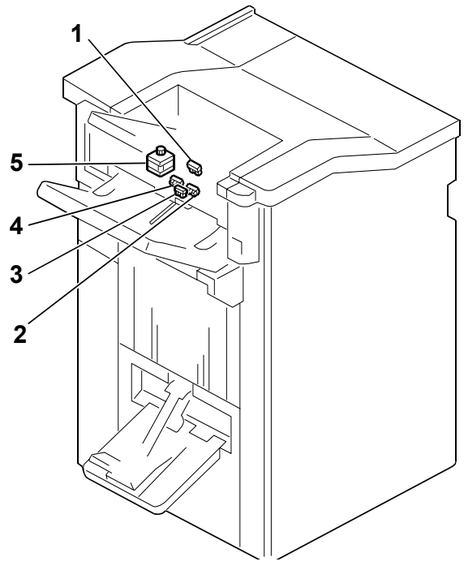


Fig.-10 d434d210

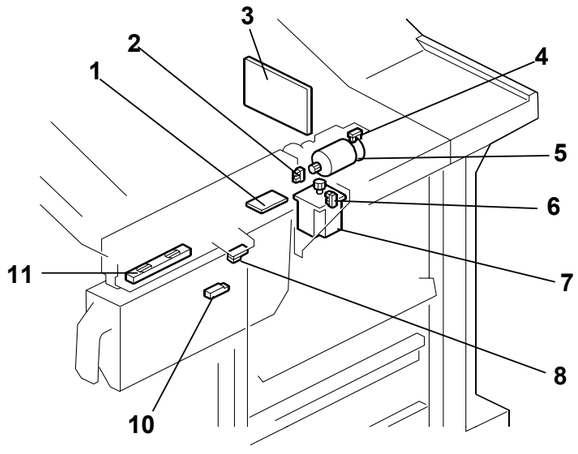


Fig.-11 d449d201

Symbol	Index No.	Description	P to P	Page
Motors				
M1	F3-1	Shift Tray Lift Motor	A2	1/2
M2	F2-6	Proof Tray JG Motor	A2	1/2
M3	F2-8	Stapler JG Motor	A2	1/2
M4	F10-5	Exit Guide Motor	B2	1/2
M5	F1-5	Horizontal Transport Motor	B2	1/2
M6	F1-3	Shift Tray Exit Motor	B2	1/2
M7	F4-5	Shift Tray Jogger Motor	D1	1/2
M8	F4-1	Shift Tray Jogger Retraction Motor	E1	1/2
M9	F3-14	Drag Drive Motor	C7	1/2
M10	F3-15	Drag Roller Motor	C7	1/2
M11	F3-7	Shift Motor	C7	1/2
M12	F8-2	Bottom Fence Lift Motor	C7	1/2
M13	F6-4	Stack Transport Unit Motor	D7	1/2
M14	F6-10	Stack Feed-Out Belt Motor	D7	1/2
M15	F6-7	Booklet Stapler Top Fence Motor	D7	1/2
M16	F8-4	Rear Jogger Fence Motor	D7	1/2
M17	F8-5	Front Jogger Fence Motor	D7	1/2
M18	F7-7	Stack Plate Motor (Rear)	D7	1/2
M19	F7-11	Stack Plate Motor (Front)	E7	1/2
M20	F7-9	Stack Plate Motor (Center)	E7	1/2
M21	F7-2	Positioning Roller Rotation Motor	E7	1/2
M22	F7-1	Positioning Roller Motor	E7	1/2
M23	F7-4	Stapling Tray Entrance Motor	F7	1/2
M24	F6-1	Stack JG Motor	F7	1/2
M25	F6-3	Stack Transport Motor	F7	1/2
M26	F8-9	Stapler Rotation Motor	E10	1/2
M27	F8-7	Corner Stapler Movement Motor	F10	1/2
M28	F9-7	Booklet Stapler Clamp Roller Motor	C4	2/2
M29	F9-6	Booklet Stapler Bottom Fence Motor	C4	2/2
M30	F9-15	Booklet Stapler Side Fence Motor	D4	2/2
M31	F9-14	Booklet Stapler Bottom Fence Motor	D4	2/2
M32	F9-16	Fold Plate Motor	D4	2/2
M33	F9-17	Fold Roller Motor	D4	2/2
M34	F1-2	Proof Tray Exit Motor	E4	2/2
M35	F1-1	Pre-Stack JG Motor	E4	2/2
M36	F1-7	Registration Motor	E4	2/2
M37	F1-6	Entrance Roller Motor	E4	2/2
M38	F2-10	Pre-Stack Release Motor	G4	2/2
M39	F1-4	Pre-Stack Motor	G4	2/2
M40	F11-7	Punch Movement Motor	C9	2/2
M41	F11-5	Punch Drive Motor	C9	2/2
PCBs				
PCB1	F5-7	Main Board	G5	1/2
PCB2	F4-4	Shift Tray Jogger Unit PCB	D2	1/2
PCB3	F5-4	PSU	B6	1/2
PCB4	F5-1	Sub Board	D2	2/2
PCB5	F11-3	Punch Control Board	C7	2/2
PCB6	F11-1	CRB	C9	2/2
Solenoid				
SOL1	F8-8	Shutter Solenoid	F10	1/2
Switches				
SW1	F3-4	Shift Tray Upper Limit Switch	A2	1/2
SW2	F5-3	Emergency Shift Tray Stop Switch	E2	1/2
SW3	F5-2	Front Door Switch	D4	1/2
SW4	F5-5	Breaker Switch	B7	1/2
Fan				
FAN1	F5-6	FAN1	B7	1/2

Symbol	Index No.	Description	P to P	Page
Sensors				
S1	F2-3	Proof Tray Exit Sensor	B2	1/2
S2	F2-4	Proof Tray Full Sensor	B2	1/2
S3	F2-12	Entrance Sensor	B2	1/2
S4	F2-9	Pre-stack Roller HP Sensor	C2	1/2
S5	F2-2	Shift Tray Exit Sensor (Long)	C2	1/2
S6	F2-1	Shift Tray Exit Sensor (Short)	C2	1/2
S7	F10-1	Exit Guide HP Sensor	C2	1/2
S8	F10-2	Paper Height Sensor (Shift)	C2	1/2
S9	F10-3	Paper Height Sensor (Staple)	D2	1/2
S10	F10-4	Paper Height Sensor (Z-Fold)	D2	1/2
S11	F4-2	Shift Tray Jogger HP Sensor	D2	1/2
S12	F4-3	Shift Jogger Fence Retract HP Sensor	D2	1/2
S13	F3-9	Staple Trimmings Hopper Full Sensor	F2	1/2
S14	F3-8	Staple Trimmings Hopper Set Sensor	F2	1/2
S15	F9-10	Booklet Stapler Jogger HP Sensor	A5	1/2
S16	F9-11	Booklet Stapler Bottom Fence HP	A5	1/2
S17	F9-5	Booklet Stapler Jogger HP Sensor	A5	1/2
S18	F9-3	Fold Plate HP Sensor	A5	1/2
S19	F9-4	Booklet Top Fence HP Sensor	B5	1/2
S20	F9-2	Booklet Stapler Clamp Roller HP Sensor	B5	1/2
S21	F9-8	Booklet Stapler Exit Sensor	B5	1/2
S22	F9-1	Fold Plate Cam HP Sensor	B5	1/2
S23	F9-9	Fold Unit Entrance Sensor	B5	1/2
S24	F3-11	Shift Tray Full Sensor (1500)	B5	1/2
S25	F3-10	Shift Tray Full Sensor (2500)	B5	1/2
S26	F9-12	Booklet Tray Full Sensor (Upper)	C4	1/2
S27	F9-13	Booklet Tray Full Sensor (Lower)	C4	1/2
S28	F3-2	Paper Height Sensor (TE)	C4	1/2
S29	F3-3	Drag Roller HP Sensor	C4	1/2
S30	F3-6	Shift Tray HP Sensor (Front)	C4	1/2
S31	F3-5	Shift Tray HP Sensor (Rear)	C4	1/2
S32	F3-12	Shift Tray Full Sensor (1000)	E4	1/2
S33	F3-13	Shift Tray Full Sensor (500)	E4	1/2
S34	F2-7	Proof Tray JG HP Sensor	F4	1/2
S35	F2-5	Stapler JG HP Sensor	F4	1/2
S36	F2-11	Pre-Stack Paper Sensor	F4	1/2
S37	F6-9	Stack Feed-Out Belt HP Sensor	A10	1/2
S38	F8-6	Bottom Fence HP Sensor	B10	1/2
S39	F8-1	Front Jogger Fence HP Sensor	B9	1/2
S40	F8-3	Rear Jogger Fence HP Sensor	B9	1/2
S41	F6-6	Top Fence HP Senor	B10	1/2
S42	F6-8	Stapling Tray Paper Sensor	B10	1/2
S43	F7-5	Stapling Tray Entrance Sensor	C10	1/2
S44	F7-10	Stack Plate HP Sensor (Front)	C10	1/2
S45	F7-8	Stack Plate HP Sensor (Center)	C10	1/2
S46	F7-6	Stack Plate HP Sensor (Rear)	D10	1/2
S47	F6-5	Stack Transport Unit HP Sensor	D9	1/2
S48	F6-2	Stack JG HP Sensor	D9	1/2
S49	F7-3	Positioning Roller HP Sensor	E9	1/2
S50	F8-10	Corner Stapler HP Sensor	E10	1/2
S51	F8-11	Stapler Rotation HP Sensor (Front)	E10	1/2
S52	F8-12	Stapler Rotation HP Sensor (Rear)	E10	1/2
S53	F11-11	Punchout Hopper Full Sensor	B9	2/2
S54	F11-6	Punch Unit HP Sensor	B8	2/2
S55	F11-8	Punch Vertical Registration Sensor	B9	2/2
S56	F11-11	CIS	C10	2/2
S57	F11-2	Punch Blade HP Sensor	D9	2/2
S58	F11-4	Punch RPS Sensor	D9	2/2

D447 POINT TO POINT DIAGRAM

Power Cord

Inlet 11026088

I/F: Upper stream (Main/Other Option)

Breaker Switch SW0

Operation Panel Board (PCB?)

PSU (PCB?)

GBC Punch

Main Board (PCB1)

Entrance Sensor S1

Shift Tray Exit Sensor S2

Shift Tray JG HP Sensor S8

Proof Tray JG HP Sensor S9

Shift Roller HP Sensor S10

Paper Height Sensor S5

Front Fence HP Sensor S11

Rear Fence HP Sensor S12

Jogger Fence Retraction HP Sensor S13

Shift Tray Paper Sensor S14

Tray Guard Sensor 1 S15

Tray Guard Sensor 2 S16

LE Stopper HP Sensor S19

Sub Jogger HP Sensor S20

Proof Tray Full Sensor S4

Top Door SW SW1

Front Door SW SW2

Proof Tray Exit Sensor S3

Exit Sensor S17

Transport Sensor S18

Tray Full Sensor 1: 25% S21

Tray Full Sensor 2: 50% S22

Tray Full Sensor 3: 75% S23

Tray Full Sensor 4: 100% S24

Tray Low Limit Sensor S25

Tray High Limit SW SW3

Tray Low Limit SW SW4

Roll Away Cart Set SW SW5

Front Door Lock SOL SOL1

Fan 1 Motor M15

Fan 2 Motor M16

Fan 3 Motor M17

M1 Entrance Motor

M2 Shift JG Motor

M3 Transport Motor

M4 Shift Exit Motor

M5 Shift Roller Motor

M6 Proof Tray Exit Motor

M7 Proof Tray JG Motor

M8 Main Jogger Front Fence Motor

M9 Main Jogger Rear Fence Motor

M10 Main Jogger Fence

M12 LE Stopper Motor

M13 Sub Jogger Motor

M14 Tray Lift Motor

D447 ELECTRICAL COMPONENT LAYOUT

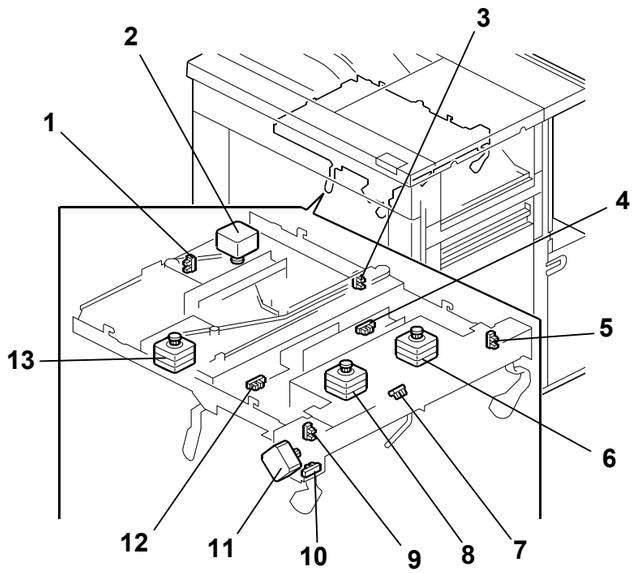


Fig.-1 d447d103

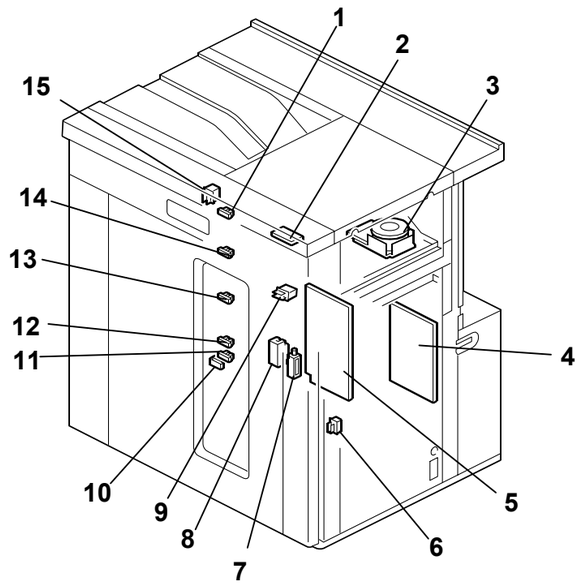


Fig.-2 d447d104

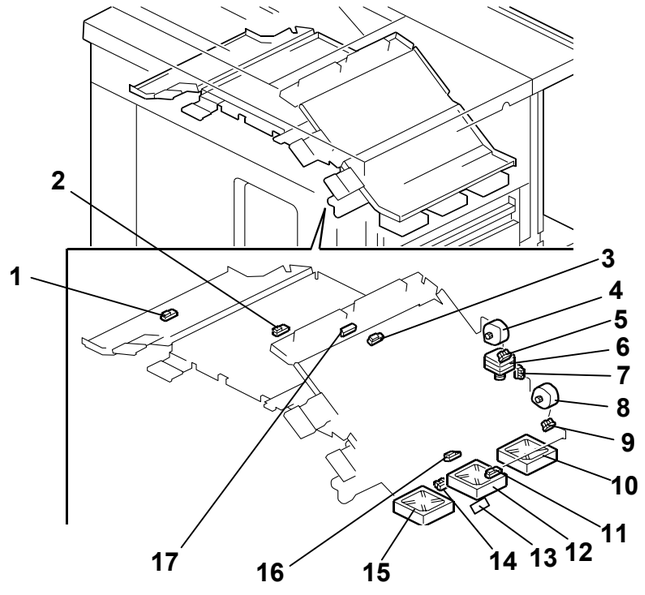


Fig.-3 d447d105

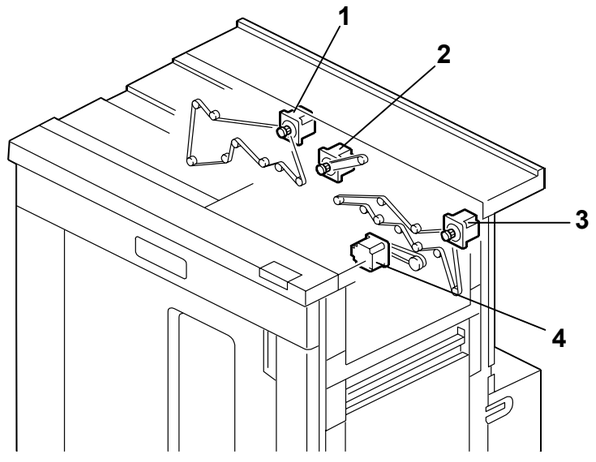
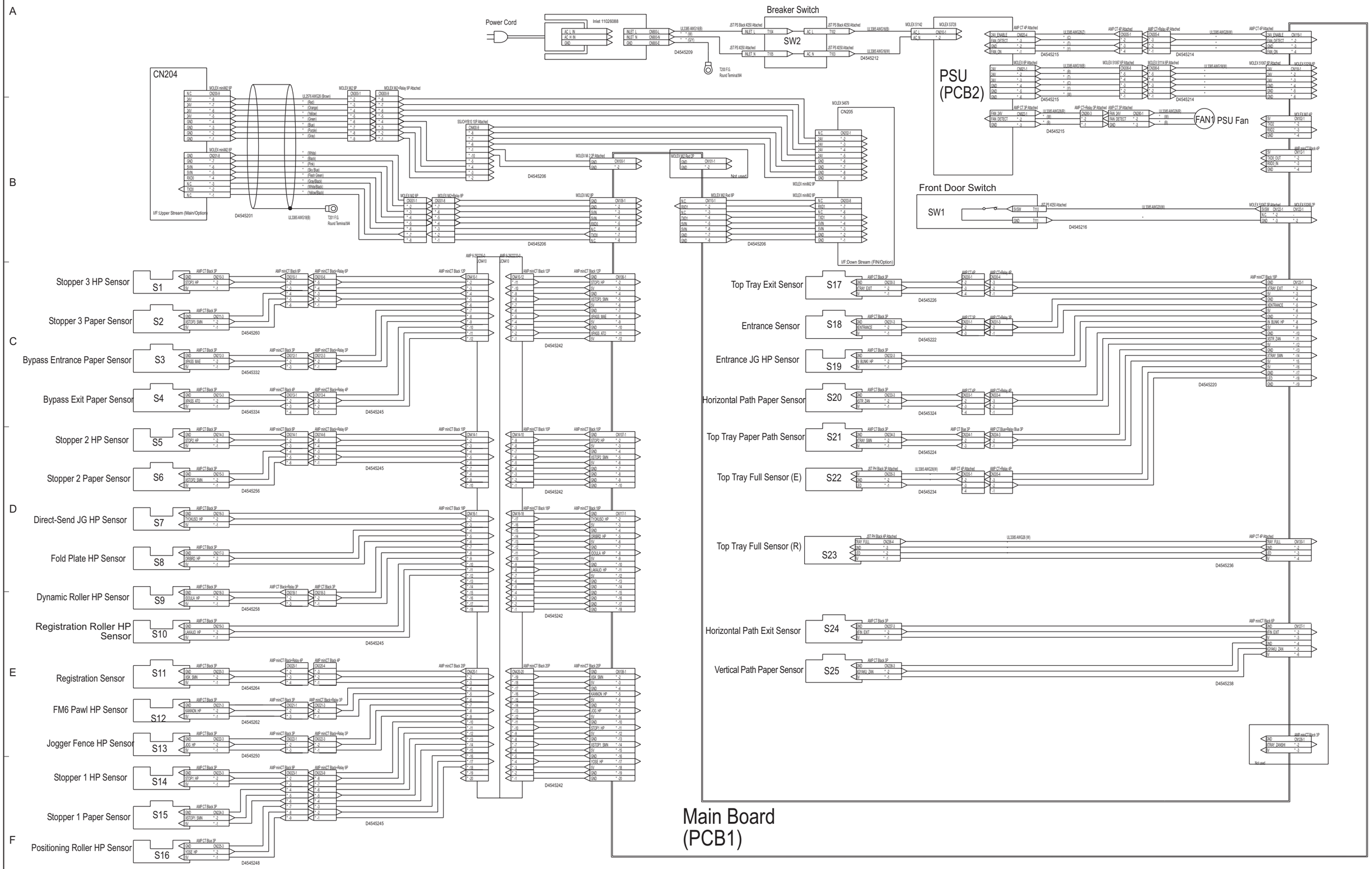


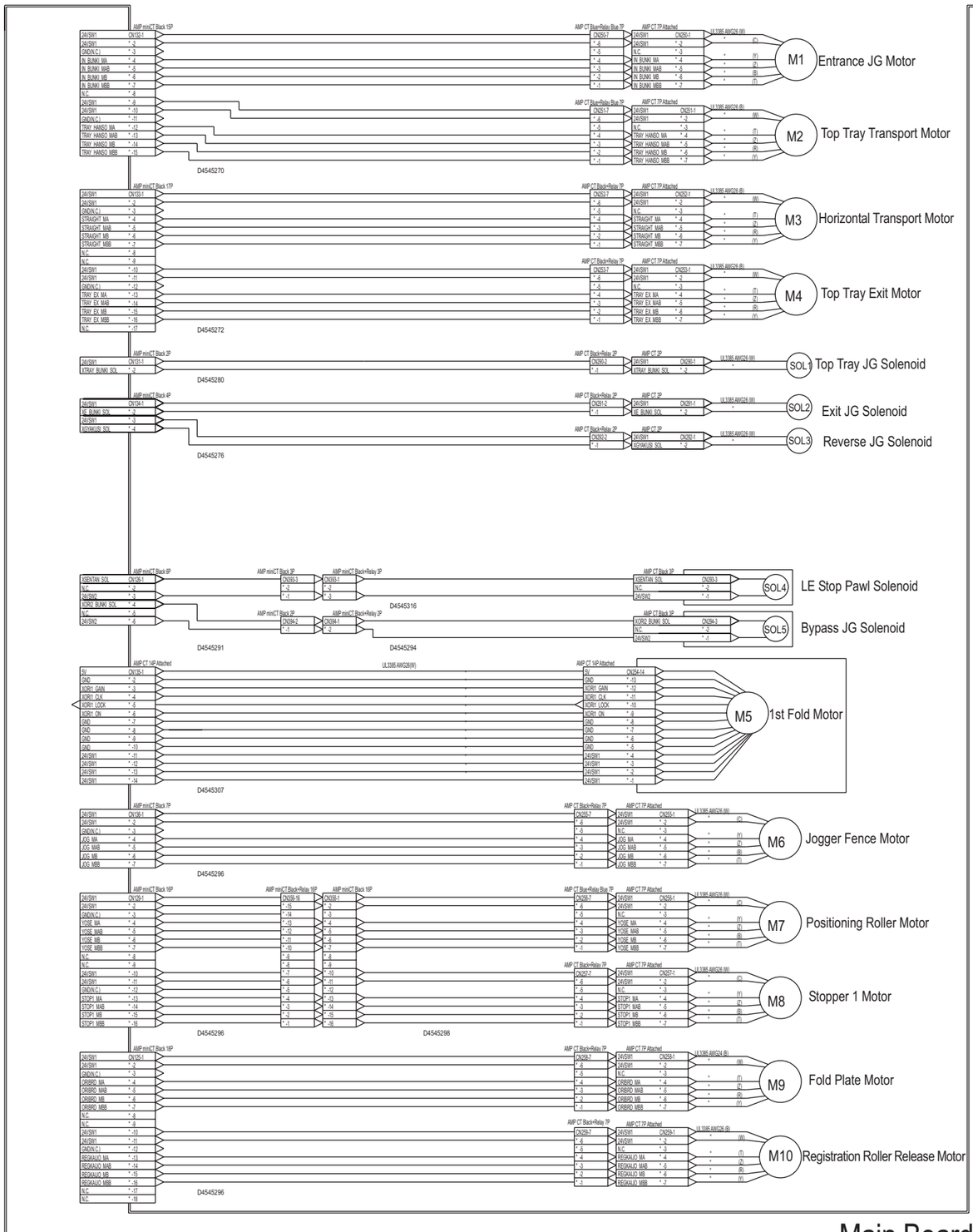
Fig.-4 d447d106

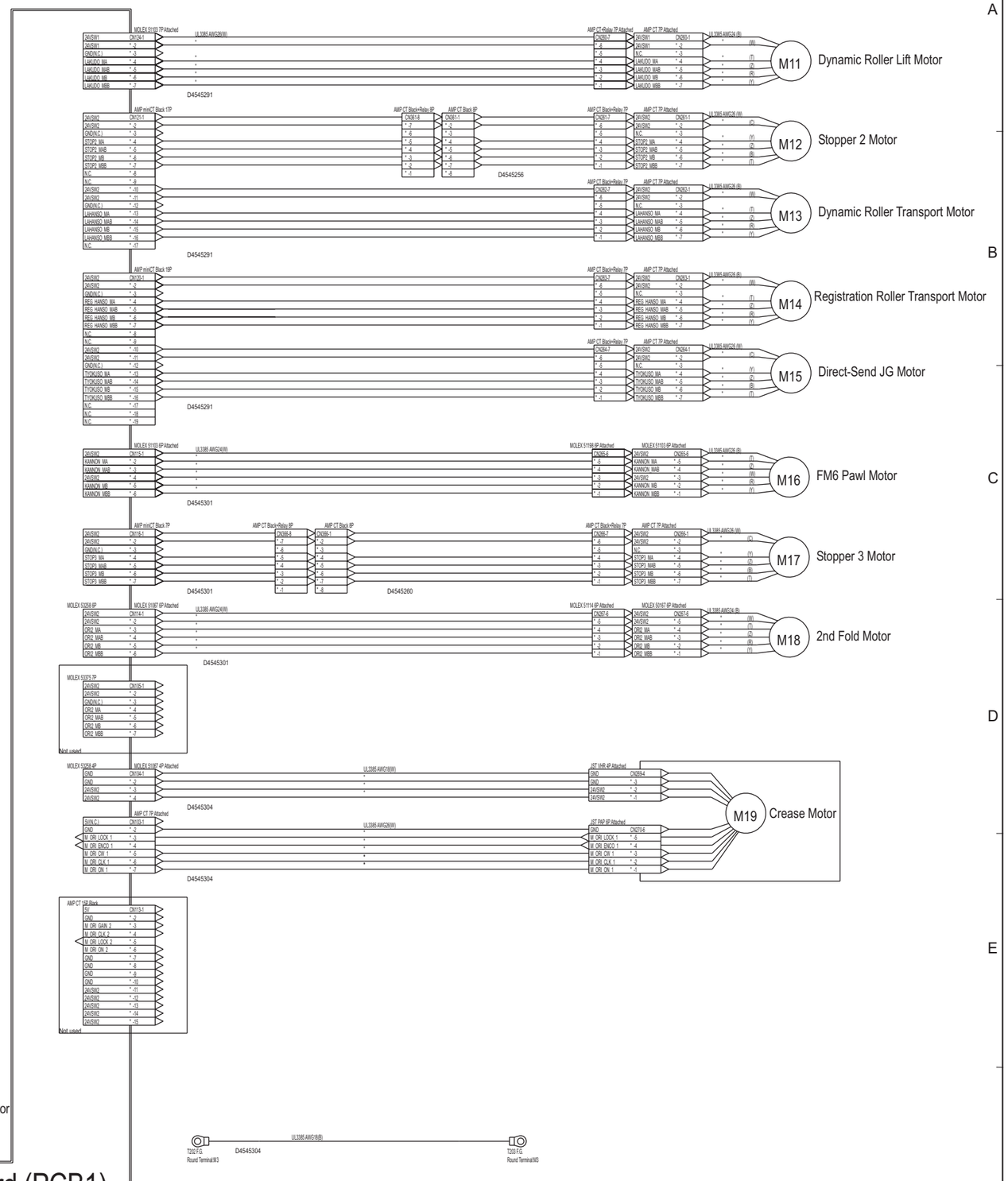
Symbol	Index No.	Description	P to P
Motors			
M1	F4-3	Entrance Motor	A9
M2	F3-8	Shift JG Motor	A9
M3	F4-1	Transport Motor	A9
M4	F4-4	Shift Exit Motor	B9
M5	F3-6	Shift Roller Motor	B9
M6	F4-2	Proof Tray Exit Motor	C9
M7	F3-4	Proof Tray JG Motor	C9
M8	F1-8	Main Jogger Front Fence Motor	C9
M9	F1-6	Main Jogger Rear Fence Motor	C9
M10	F1-11	Main Jogger Fence Retraction Motor	D9
M12	F1-2	LE Stopper Motor	E9
M13	F1-13	Sub Jogger Motor	E9
M14	F2-3	Tray Lift Motor	E9
M15	F3-15	Fan 1 Motor	E6
M16	F3-12	Fan 2 Motor	E6
M17	F3-10	Fan 3 Motor	F6
PCBs			
PCB1	F2-4	Main Board	F5
PCB2	F2-5	PSU	A5
PCB3	F2-2	Operation Panel PCB	B6
Solenoids			
SOL1	F2-7	Front Door Lock SOL	E6
Switches			
SW0	F2-8	Breaker Switch	A5
SW1	F2-15	Top Door SW	E2
SW2	F2-9	Front Door SW	F2
SW3	F3-13	Tray High Limit SW	E5
SW4	F2-10	Tray Low Limit SW	E5
SW5	F2-6	Roll Away Cart Set SW	E5
Sensors			
S1	F3-11	Entrance Sensor	B2
S2	F3-16	Shift Tray Exit Sensor	C2
S3	F3-3	Proof Tray Exit Sensor	C5
S4	F3-17	Proof Tray Full Sensor	E2
S5	F3-14	Paper Height Sensor	C2
S8	F3-9	Shift Tray JG HP Sensor	C2
S9	F3-5	Proof Tray JG HP Sensor	C2
S10	F3-7	Shift Roller HP Sensor	C2
S11	F1-9	Front Fence HP Sensor	D2
S12	F1-5	Rear Fence HP Sensor	D2
S13	F1-10	Jogger Fence Retraction HP Sensor	D2
S14	F1-7	Shift Tray Paper Sensor	D2
S15	F1-12	Tray Guard Sensor 1	D2
S16	F1-4	Tray Guard Sensor 2	E2
S17	F3-1	Exit Sensor	C5
S18	F3-2	Transport Sensor	C5
S19	F1-1	LE Stopper HP Sensor	E2
S20	F1-3	Sub Jogger HP Sensor	E2
S21	F2-1	Tray Full Sensor 1: 25%	C5
S22	F2-14	Tray Full Sensor 2: 50%	D5
S23	F2-13	Tray Full Sensor 3: 75%	D5
S24	F2-12	Tray Full Sensor 4: 100%	D5
S25	F2-11	Tray Low Limit Sensor	D5

D454 POINT TO POINT DIAGRAM (1/2)



D454 POINT TO POINT DIAGRAM (2/2)





D454 ELECTRICAL COMPONENT LAYOUT

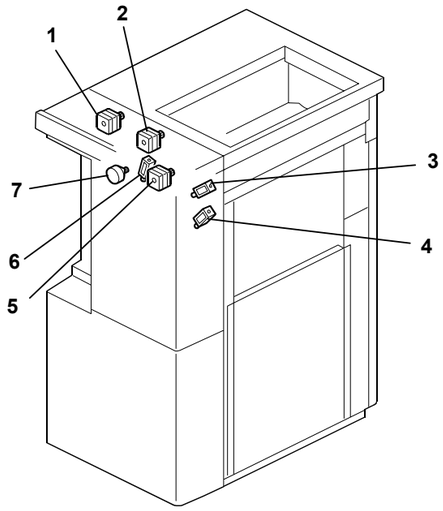


Fig.-1 d454d201

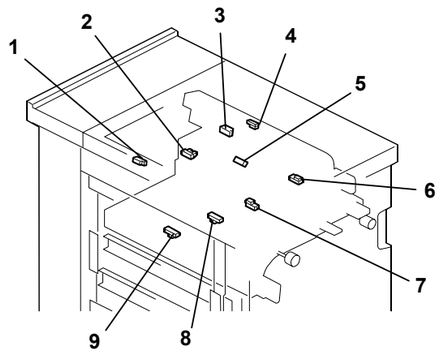


Fig.-2 d454d202

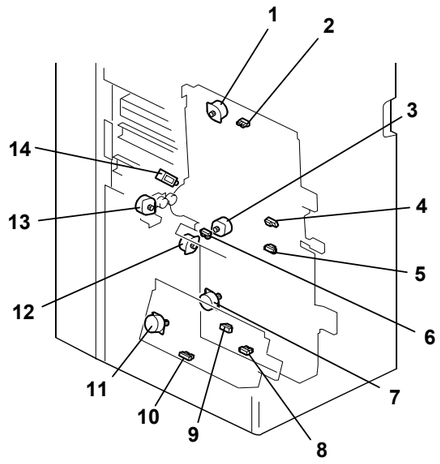


Fig.-3 d454d203

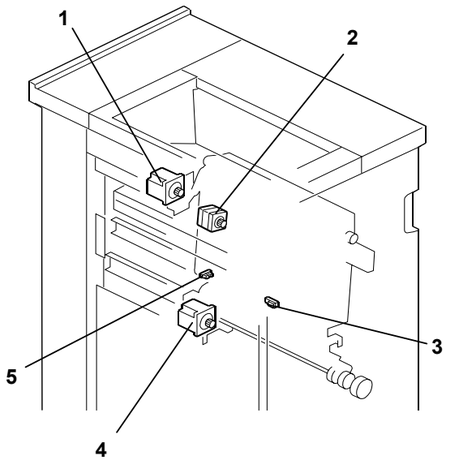


Fig.-4 d454d204

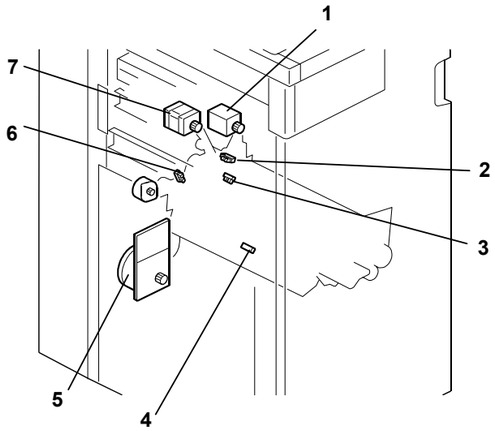


Fig.-5 d454d205

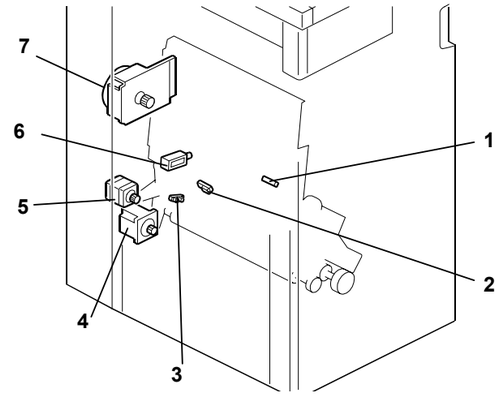


Fig.-6 d454d206

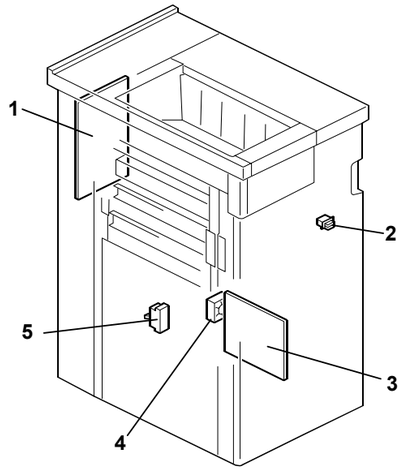
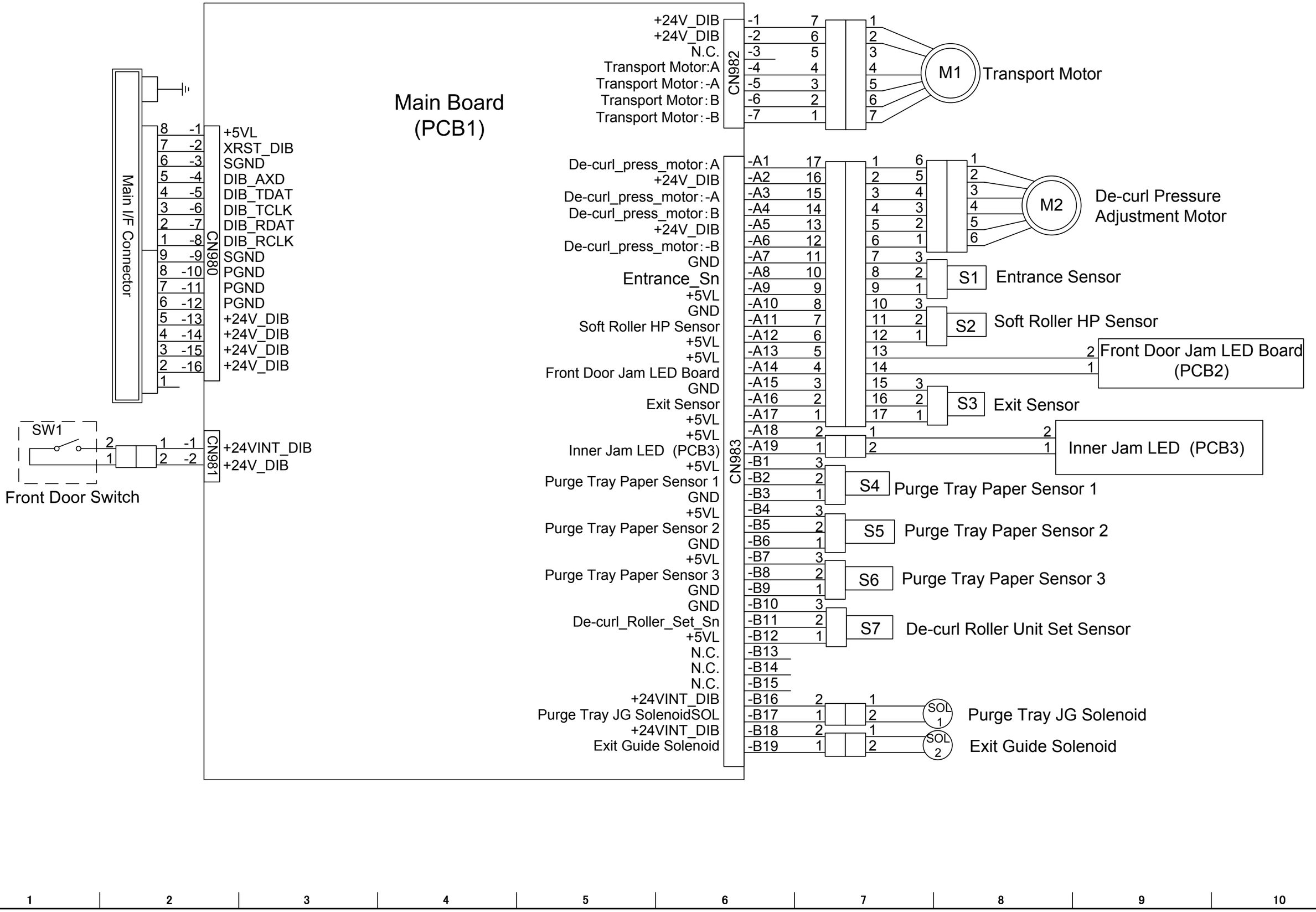


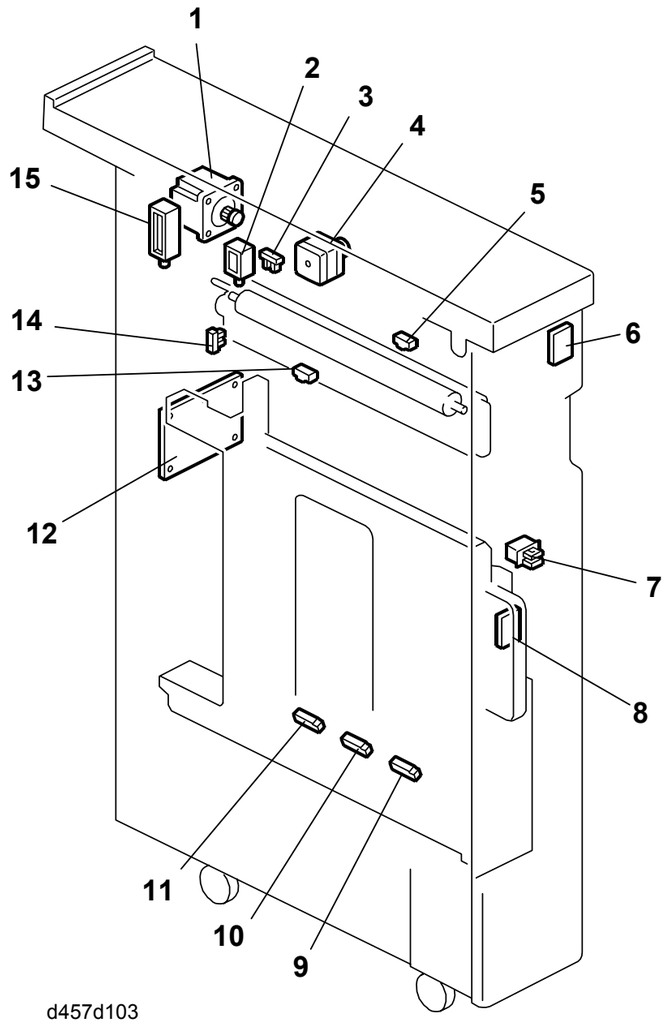
Fig.-7 d454d207

Symbol	Index No.	Description	P to P	Page
Motors				
M1	F1-7	Entrance JG Motor	A4	2/2
M2	F1-5	Top Tray Transport Motor	B4	2/2
M3	F1-1	Horizontal Transport Motor	B4	2/2
M4	F1-2	Top Tray Exit Motor	B4	2/2
M5	F5-5	1st Fold Motor	D4	2/2
M6	F3-3	Jogger Fence Motor	D4	2/2
M7	F3-12	Positioning Roller Motor	E4	2/2
M8	F3-7	Stopper 1 Motor	E4	2/2
M9	F4-4	Fold Plate Motor	E4	2/2
M10	F5-1	Registration Roller Release Motor	F4	2/2
M11	F4-1	Dynamic Roller Lift Motor	A8	2/2
M12	F3-1	Stopper 2 Motor	B8	2/2
M13	F4-2	Dynamic Roller Transport Motor	B8	2/2
M14	F5-7	Registration Roller Transport Motor	B8	2/2
M15	F3-13	Direct-Send JG Motor	C8	2/2
M16	F6-5	FM6 Pawl Motor	C8	2/2
M17	F3-11	Stopper 3 Motor	C8	2/2
M18	F6-4	2nd Fold Motor	D8	2/2
M19	F6-7	Crease Motor	D8	2/2
PCBs				
PCB1	F7-1	Main Board	F5	-
PCB2	F7-3	PSU	A6	1/2
Sensors				
S1	F3-10	Stopper 3 HP Sensor	C1	1/2
S2	F3-9	Stopper 3 Paper Sensor	C1	1/2
S3	F6-1	Bypass Entrance Paper Sensor	C1	1/2
S4	F6-2	Bypass Exit Paper Sensor	C1	1/2
S5	F3-2	Stopper 2 HP Sensor	D1	1/2
S6	F3-4	Stopper 2 Paper Sensor	D1	1/2
S7	F5-6	Direct-Send JG HP Sensor	D1	1/2
S8	F5-3	Fold Plate HP Sensor	D1	1/2
S9	F4-5	Dynamic Roller HP Sensor	E1	1/2
S10	F6-3	Registration Roller HP Sensor	E1	1/2
S11	F4-3	Registration Sensor	E1	1/2
S12	F5-4	FM6 Pawl HP Sensor	E1	1/2
S13	F5-2	Jogger Fence HP Sensor	E1	1/2
S14	F3-8	Stopper 1 HP Sensor	F1	1/2
S15	F3-5	Stopper 1 Paper Sensor	F1	1/2
S16	F3-6	Positioning Roller HP Sensor	F1	1/2
S17	F2-4	Top Tray Exit Sensor	C6	1/2
S18	F2-6	Entrance Sensor	C6	1/2
S19	F2-2	Entrance JG HP Sensor	C6	1/2
S20	F2-7	Horizontal Path Paper Sensor	C6	1/2
S21	F2-5	Top Tray Paper Path Sensor	D6	1/2
S22	F2-3	Top Tray Full Sensor (E)	D6	1/2
S23	F2-1	Top Tray Full Sensor (R)	D6	1/2
S24	F2-9	Horizontal Path Exit Sensor	E6	1/2
S25	F2-8	Vertical Path Paper Sensor	E6	1/2
Solenoids				
SOL1	F1-6	Top Tray JG Solenoid	B4	2/2
SOL2	F1-4	Exit JG Solenoid	C4	2/2
SOL3	F1-3	Reverse JG Solenoid	C4	2/2
SOL4	F3-14	LE Stop Pawl Solenoid	C4	2/2
SOL5	F6-6	Bypass JG Solenoid	C4	2/2
Switches				
SW1	F7-2	Front Door Switch	B6	1/2
SW2	F7-5	Breaker Switch	A5	1/2
Other				
FAN1	F7-4	PSU Fan	E8	1/2

D457 POINT TO POINT DIAGRAM



D457 ELECTRICAL COMPONENT LIST



Symbol	Index No.	Description	P to P
Motors			
M1	4	1st Lift Motor	B8
M2	1	1st Paper Feed Motor	B8
PCBs			
PCB1	12	Main Board	B4
PCB2	6	Front Door Jam LED	D9
PCB3	8	Inner Jam LED	D9
Sensors			
S1	5	Entrance Sensor	C8
S2	3	Soft Roller HP Sensor	C8
S3	13	Exit Sensor	D8
S4	9	Purge Tray Paper Sensor 1	D7
S5	10	Purge Tray Paper Sensor 2	E7
S6	11	Purge Tray Paper Sensor 3	E7
S7	14	De-curl Unit Set Sensor	E7
Switche			
SW1	7	Front Door Switch	D1
Solenoids			
SOL1	2	Purge Tray JG Solenoid	F8
SOL2	15	Exit Guide Solenoid	F8

B830 Point toPoint Diagram 1/4

Stack Feed-Out Belt HP Sensor — S27 — CN219-3: GND2 -3, KNK I AR 1 -2, 5V -1
Staple Tray Full Sensor — S28 — CN220-3: 5V -3, KNK I AR 1 -2, GND2 -1
Jogger HP Sensor — S29 — CN221-3: GND2 -3, JOG_HP -2, 5V -1
Bottom Fence HP Sensor — S30 — CN223-3: GND2 -3, FENCE_HP -2, 5V -1
Top Fence HP Sensor — S31 — CN222-3: GND2 -3, STOPPER_HP -2, 5V -1
Positioning Roller HP Sensor — S32 — CN218-3: GND2 -3, POP_HP -2, 5V -1
Stack Plate HP Sensor (Center) — S33 — CN225-3: GND2 -3, OSAE_HP -2, 5V -1
Stack Plate HP Sensor (Front) — S34 — CN226-3: GND2 -3, OSAEW_HP -2, 5V -1
Stack Plate HP Sensor (Rear) — S35 — CN227-3: GND2 -3, OSAEU_HP -2, 5V -1
Stapler HP Sensor (Front/Rear) — S36 — CN228-3: GND2 -3, STPHW_HP -2, 5V -1
Stapler Rotation Sensor 1 — S37 — CN229-3: GND2 -3, STPPOS1_HP -2, 5V -1
Stapler Rotation Sensor 2 — S38 — CN230-3: GND2 -3, STPPOS2_HP -2, 5V -1

CN223-1: GND2 -1, KBLT_HP -2, 5V -3, 5V -4, KNK I AR 1 -5, GND2 -6, N. C. -7, GND2 -8, JOG_HP -9, 5V -10, GND2 -11, FENCE_HP -12, 5V -13
CN223-13: GND2 -12, KBLT_HP -11, 5V -10, KNK I AR 1 -9, GND2 -8, N. C. -7, GND2 -6, JOG_HP -5, 5V -4, GND2 -3, FENCE_HP -2, 5V -1
CN345-1: GND2 -1, KBLT_HP -2, 5V -3, 5V -4, KNK I AR 1 -5, GND2 -6, N. C. -7, GND2 -8, JOG_HP -9, 5V -10, GND2 -11, FENCE_HP -12, 5V -13, GND2 -14, STOPPER_HP -15, 5V -16, GND2 -17, POP_HP -18, 5V -19, N. C. -20
CN345-20: GND2 -19, KBLT_HP -18, 5V -17, KNK I AR 1 -16, GND2 -15, N. C. -14, GND2 -13, JOG_HP -12, 5V -11, GND2 -10, FENCE_HP -9, 5V -8, GND2 -7, STOPPER_HP -6, 5V -5, GND2 -4, POP_HP -3, 5V -2, N. C. -1
CN112-1: GND2[0] -1, KBLT_HP[▼5] -2, 5V[5] -3, 5V[0] -4, KNK I AR 1 [▲5] -5, GND2[0] -6, N. C. -7, GND2[0] -8, JOG_HP[▲5] -9, 5V[5] -10, GND2[0] -11, FENCE_HP[▲5] -12, 5V[5] -13, GND2[0] -14, STOPPER_HP[▲5] -15, 5V[5] -16, GND2[0] -17, POP_HP[▲5] -18, 5V[5] -19, N. C. -20
CN105-1: GND2 -1, GND2 -2, 5V -3, 5V -4, TXD2 -5, RXD2 -6, GND2 -7
CN104-1: N. C. -1, 24V -2, 24V -3, 24V -4, 24V -5, GND1 -6, GND1 -7, GND1 -8, GND1 -9
CN344-1: GND2 -1, OSAE_HP -2, 5V -3, GND2 -4, OSAEW_HP -5, 5V -6, GND2 -7, OSAEU_HP -8, 5V -9, N. C. -10, N. C. -11, N. C. -12
CN344-12: GND2 -12, OSAE_HP -11, 5V -10, GND2 -9, OSAEW_HP -8, 5V -7, GND2 -6, OSAEU_HP -5, 5V -4, N. C. -3, N. C. -2, N. C. -1
CN114-1: GND2[0] -1, OSAE_HP[▲5] -2, 5V[5] -3, GND2[0] -4, OSAEW_HP[▲5] -5, 5V[5] -6, GND2[0] -7, OSAEU_HP[▲5] -8, 5V[5] -9
CN139-1: 5V -1, TXD2 -2, RXD2 -3, GND2 -4
CN140-1: 5V -1, TXD0_OUT -2, RXD0_1 IN -3, GND2 -4
CN141-1: 5V -1, TXD1_OUT -2, RXD1_1 IN -3, GND2 -4
CN142-1: 5V -1, TXD3_OUT -2, RXD3_1 IN -3, GND2 -4
CN343-1: GND2 -1, STPHW_HP -2, 5V -3, GND2 -4, STPPOS1_HP -5, 5V -6, N. C. -7, GND2 -8, STPPOS2_HP -9, 5V -10
CN343-10: GND2 -9, STPHW_HP -8, 5V -7, GND2 -6, STPPOS1_HP -5, 5V -4, N. C. -3, GND2 -2, STPPOS2_HP -1
CN115-1: GND2[0] -1, STPHW_HP[▲5] -2, 5V[5] -3, GND2[0] -4, STPPOS1_HP[▲5] -5, 5V[5] -6, GND2[0] -7, STPPOS2_HP[▲5] -8, 5V[5] -9, GND2[0] -10, N. C. -11
CN342-1: N. C. -1, N. C. -2, N. C. -3, N. C. -4, N. C. -5, N. C. -6, N. C. -7, N. C. -8, N. C. -9, N. C. -10, N. C. -11, N. C. -12, N. C. -13, N. C. -14, N. C. -15, N. C. -16, N. C. -17, N. C. -18
CN342-18: N. C. -18, N. C. -17, N. C. -16, N. C. -15, N. C. -14, N. C. -13, N. C. -12, N. C. -11, N. C. -10, N. C. -9, N. C. -8, N. C. -7, N. C. -6, N. C. -5, N. C. -4, N. C. -3, N. C. -2, N. C. -1
CN348-1: GND2 -1, STPHW_HP -2, 5V -3, GND2 -4, STPPOS1_HP -5, 5V -6, N. C. -7, GND2 -8, STPPOS2_HP -9, 5V -10
CN348-10: GND2 -9, STPHW_HP -8, 5V -7, GND2 -6, STPPOS1_HP -5, 5V -4, N. C. -3, GND2 -2, STPPOS2_HP -1

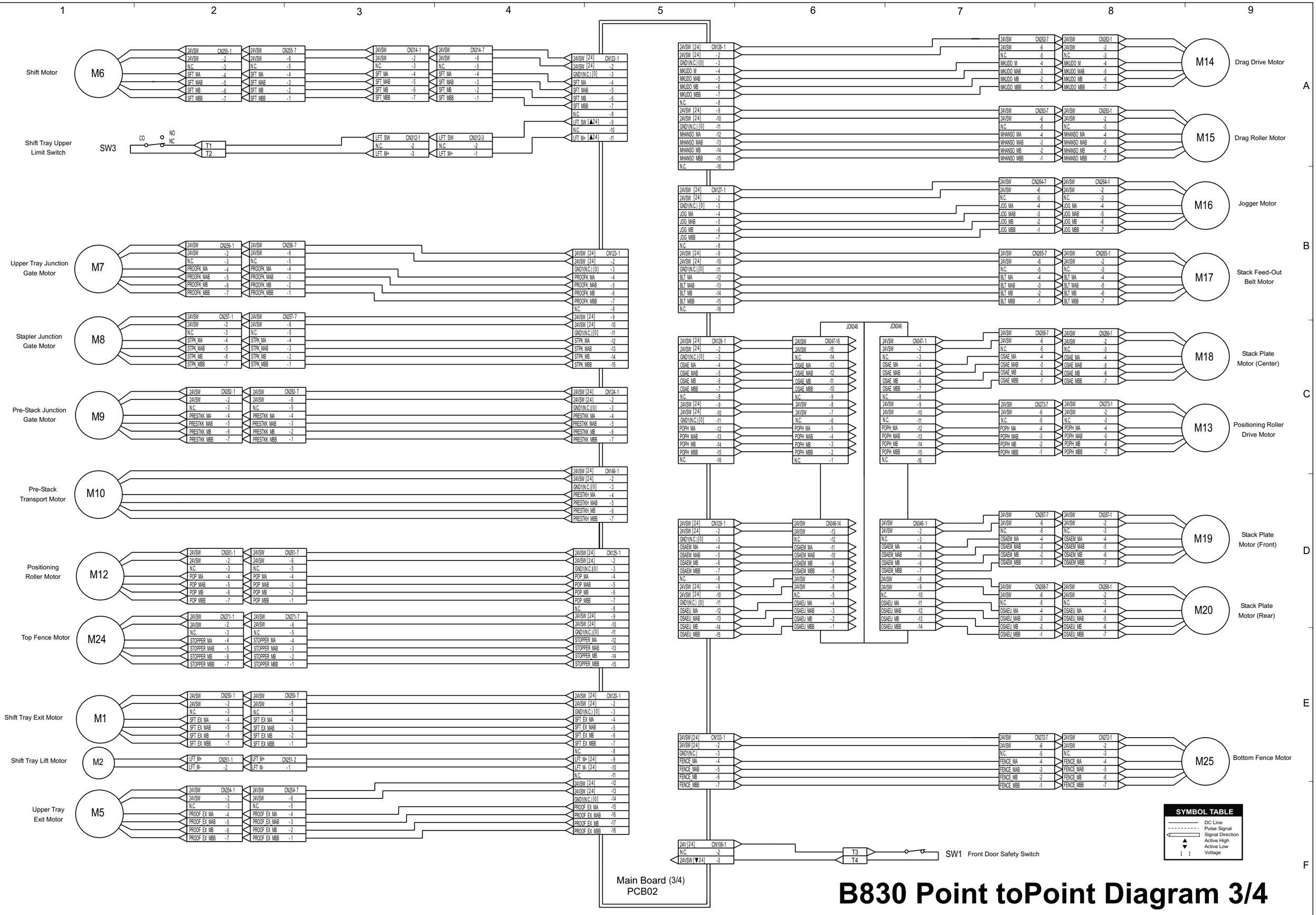
CN290-7: 5V -7, STP_READY -6, N. C. -5, GND2 -4, STP_HP -3, STP_HAR 1 -2, GND2 -1
CN313-1: 5V -1, STP_READY -2, N. C. -3, GND2 -4, STP_HP -5, STP_HAR 1 -6, GND2 -7, N. C. -8, SHOOTER_SOL -9, 24VSW -10
CN313-10: 5V -9, STP_READY -8, N. C. -7, GND2 -6, STP_HP -5, STP_HAR 1 -4, GND2 -3, N. C. -2, SHOOTER_SOL -1, 24VSW -10
CN132-1: 5V[5] -1, STP_READY[▼5] -2, N. C. -3, GND2[0] -4, STP_HP[▼5] -5, STP_HAR 1[▼5] -6, GND2[0] -7, N. C. -8, SHOOTER_SOL[▲24] -9, 24VSW[24] -10
CN281-2: STP M+ -2, STP M- -1
CN131-1: STP M+[24] -1, STP M-[24] -2
CN350-1: SHOOTER_SOL -1, 24VSW -2
CN350-2: SHOOTER_SOL -1, 24VSW -2
CN360-1: SHOOTER_SOL -1, 24VSW -2
CN360-2: SHOOTER_SOL -1, 24VSW -2

SOL1 — Staple Trimming Chute Solenoid
M23 — Staple Hammer Motor

Main Board (2/4) PCB02

SYMBOL TABLE
DC Line
Pulse Signal
Signal Direction
Active High
Active Low
[ ] Voltage

B830 Point toPoint Diagram 2/4



B830 Point toPoint Diagram 3/4

B830 Point toPoint Diagram 4/4

SYMBOL TABLE

———	DC Line
- - - - -	Pulse Signal
◁———	Signal Direction
▲	Active High
▼	Active Low
[ ]	Voltage

Stapler Rotation Motor — M22

Stapler Movement Motor — M21

Pre-Stack Junction Gate Motor — M11

Punch-out Hopper Full Sensor — S39

Punch HP Sensor 1 — S40

Punch Motor — M29

Punch HP Sensor 2 — S41

PCB:*** B8315510

Emergency Stop Switch SW02

Stapler Exit Motor — M4

Exit Guide Motor — M3

Main Board (4/4) PCB02

M27 — Upper Transport Motor

M28 — Lower Transport Motor

Shift Tray Jogger HP Sensor — S42

Shift Tray Jogger Retraction HP Sensor — S43

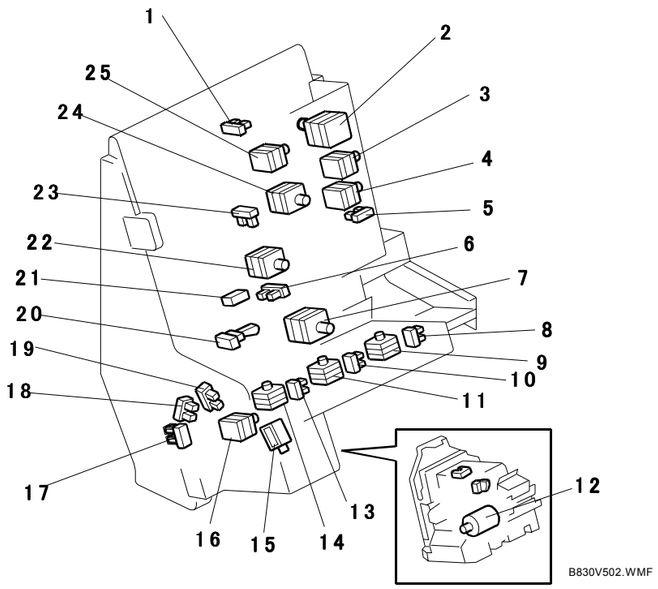
Shift Tray Jogger Motor — M30

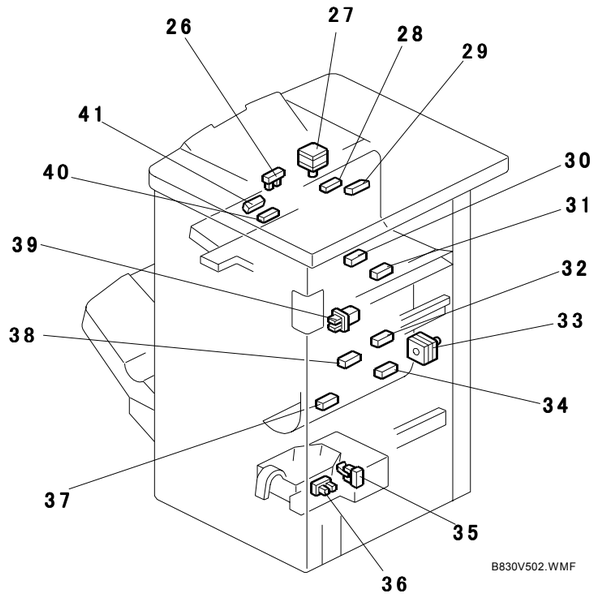
Shift Tray Jogger Retraction Motor — M31

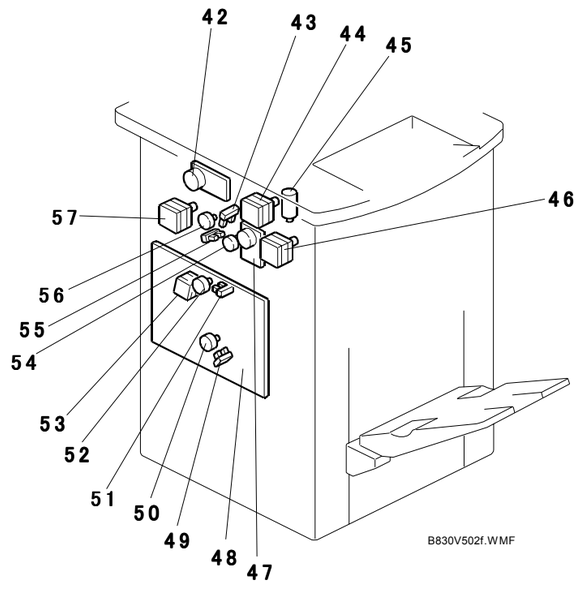
Main Board (Output Jogger) PCB01

Shift Jogger

B830 ELECTRICAL COMPONENT LAYOUT







Symbol	Index No.	Description	P to P
Motors			
M1	46	Shift Tray Exit Motor	3-E1
M2	45	Shift Tray Lift Motor	3-E1
M3	27	Exit Guide Motor	4-F1
M4	33	Stapler Exit Motor	4-E1
M5	44	Upper Tray Exit Motor	3-F1
M6	67	Shift Motor	3-A1
M7	54	Upper Tray Junction Gate Motor	3-B1
M8	56	Stapler Junction Gate Motor	3-C1
M9	52	Pre-Stack Junction Gate Motor	3-C1
M10	53	Pre-Stack Transport Motor	3-D1
M11	50	Pre-Stack Stopper Motor	4-C1
M12	4	Positioning Roller Motor	3-D1
M13	3	Positioning Roller Drive Motor	3-C9
M14	71	Drag Drive Motor	3-A9
M15	72	Drag Roller Motor	3-A9
M16	24	Jogger Motor	3-B9
M17	25	Stack Feed-Out Belt Motor	3-B9
M18	11	Stack Plate Motor (Center)	3-C9
M19	14	Stack Plate Motor (Front)	3-D9
M20	9	Stack Plate Motor (Rear)	3-D9
M21	7	Stapler Movement Motor	4-B1
M22	16	Stapler Rotation Motor	4-A1
M23	12	Staple Hammer Motor	2-F1
M24	2	Top Fence Motor	3-E1
M25	22	Bottom Fence Motor	3-E9
M26	42	Upper Transport Motor	4-B8
M28	47	Lower Transport Motor	4-B8
M29	57	Punch Motor	4-D1
M30	58	Shift Tray Jogger Motor	4-D9
M31	74	Shift Tray Jogger Retraction Motor	4-D9
PCB			
PCB1	77	Main Board (Output Jogger)	4-E7
PCB2	48	Main Board	1-E5
Sensors			
S1	31	Entrance Sensor	1-B1
S2	29	Upper Tray Exit Sensor	1-B1
S3	28	Upper Tray Full Sensor	1-B1
S4	41	Shift Tray Exit Sensor 1	1-C1
S5	40	Shift Tray Exit Sensor 2	1-C1
S6	26	Exit Guide HP Sensor	1-C1
S7	60	Paper Height Sensor – Standby Mode	1-C1
S8	61	Paper Height Sensor – Staple Mode	1-D1
S9	62	Paper Height Sensor – Z-Fold Full	1-D1
S10	76	Paper Height Sensor – Shift/Z-Fold	1-D1
S11	64	Drag Drive HP Sensor	1-D1
S12	65	Shift Tray Half-Turn Sensor 1	1-E1
S13	66	Shift Tray Half-Turn Sensor 2	1-E1
S14	55	Upper Tray Junction Gate HP Sensor	1-B9
S15	43	Stapler Junction Gate HP Sensor	1-B9
S16	51	Pre-Stack Junction Gate HP Sensor	1-C9
S17	38	Pre-Stack Tray Paper Sensor (Right)	1-C9
S18	68	Shift Tray Full Sensor	1-C9
S19	70	Shift Tray Full Sensor (Large Paper)	1-C9
S20	69	Shift Tray Near-Full Sensor	1-D9
S21	37	Stapler Tray Exit Sensor	1-D9
S22	36	Staple Trimmings Hopper Full Sensor	1-D9
S23	35	Staple Trimmings Hopper Set Sensor	1-E9
S24	49	Pre-Stack Stopper HP Sensor	1-E9
S25	34	Pre-Stack Tray Paper Sensor (Left)	1-E9
S26	30	Stapler Tray Entrance Sensor	1-E9
S27	20	Stack Feed-Out Belt HP Sensor	2-A1
S28	21	Staple Tray Full Sensor	2-A1
S29	23	Jogger HP Sensor	2-B1
S30	6	Bottom Fence HP Sensor	2-B1
S31	1	Top Fence HP Sensor	2-B1
S32	5	Positioning Roller HP Sensor	2-B1
S33	10	Stack Plate HP Sensor (Center)	2-C1
S34	13	Stack Plate HP Sensor (Front)	2-C1
S35	8	Stack Plate HP Sensor (Rear)	2-C1
S36	17	Stapler HP Sensor (Front/Rear)	2-C1
S37	19	Stapler Rotation Sensor 1	2-D1
S38	18	Stapler Rotation Sensor 2	2-D1

Multi Bypass Tray BY5000
(B833)Point to Point Diagram

SYMBOL TABLE

———	DC Line
- - - - - -	Pulse Signal
———→	Signal Direction
▲	Active High
▼	Active Low
[ ]	Voltage

LCIT RT5000/RT5010 (B832/B834)

Trausport Unit

Feed Unit

Lift Sensor [▲5]
Paper End Sensor [▼5]
Paper Feed Sensor [▼5]
Paper Height Sensor 1[▲5]
Paper Height Sensor 2[▲5]
Paper Width SW -1[▼5]
Paper Width SW -2[▼5]
Paper Width SW -3[▼5]
Paper Width SW -4[▼5]
Paper Width SW -5[▼5]
Paper Leugth Sensor [▼5]
Tray Lower Limit Sensor[▲5]

RESET[0/5]
M_P_STM_MODE3[0/5]
M_P_STM_CLK[0/5]
M_R_STM_MODE3[0/5]
M_R_STM_CLK[0/5]
Pick-up SOL[0/5]
Lift Motor(+)[0/5]
Lift Motor(-)[0/5]
Tray Lift SW[0/5]
Tray Lift SW-LED[0/5]
Feed Unit Set[0/5]

Vaa(+24V)[24]
PGND[0]
Vcc(+5V)[5]
SGND[0]

Lift Sensor 4[▲5]
Paper End Sensor [▼5]
Paper Feed Sensor [▼5]
Paper Height Sensor 1[▲5]
Paper Height Sensor 2[▲5]
Paper Width SW -1[▼5]
Paper Width SW -2[▼5]
Paper Width SW -3[▼5]
Paper Width SW -4[▼5]
Paper Width SW -5[▼5]
Paper Length Sensor [▼5]
Tray Lower Limit Sensor [▲5]

[0/5]RESET
[0/5]M_P_STM_MODE3
[0/5]M_P_STM_CLK
[0/5]M_R_STM_MODE3
[0/5]M_R_STM_CLK
[0/5]Pick-up SOL
[0/5]Lift Motor(+)
[0/5]Lift Motor(-)
[0/5]Tray Lift SW
[0/5]Tray Lift SW-LED
[0/5]Feed Unit Set

[24]Vaa(+24V)
[0]PGND
[5]Vcc(+5V)
[0]SGND

M_P_STM_A[0/24]
COM_A(+24V)[24]
M_P_STM_A-[0/24]
M_P_STM_B[0/24]
COM_B(+24V)[24]
M_P_STM_B-[0/24]

M_R_STM_A[0/24]
COM_A(+24V)[24]
M_R_STM_A-[0/24]
M_R_STM_B[0/24]
COM_B(+24V)[24]
M_R_STM_B-[0/24]
NC

Feed Motor
Transport Motor

SGND[0]
[▲5]
Vcc(+5V)[5]
SGND[0]
[▼5]
Vcc(+5V)[5]
SGND[0]
[▲5]
Vcc(+5V)[5]
SW_LED(K)[0/5]
SW_LED(A)[5]
SW(-)[0]
SW(+)[0/5]
Vaa(+24V)[24]
[▼24]

S1 Lift Sensor
S4 Paper Feed Sensor
S2 Tray Lower Limit Sensor
SW1 Tray Lift Swich
SOL Pick-up SOL

SGND[0]
[▲5]
Vcc(+5V)[5]
SGND[0]
[▲5]
Vcc(+5V)[5]

S5 Paper Height Sensor1
S6 Paper Height Sensor2

Bypass Unit Control Board
PCB1

(-)[0/24]
(+)[0/24]

M2 Lift Motor

SGND[0]
[▼5]
Vcc(+5V)[5]
SGND[0]
[▼5]
Vcc(+5V)[5]
[▼5]
[▼5]
[▼5]
[▼5]
[▼5]
SGND[0]
NC

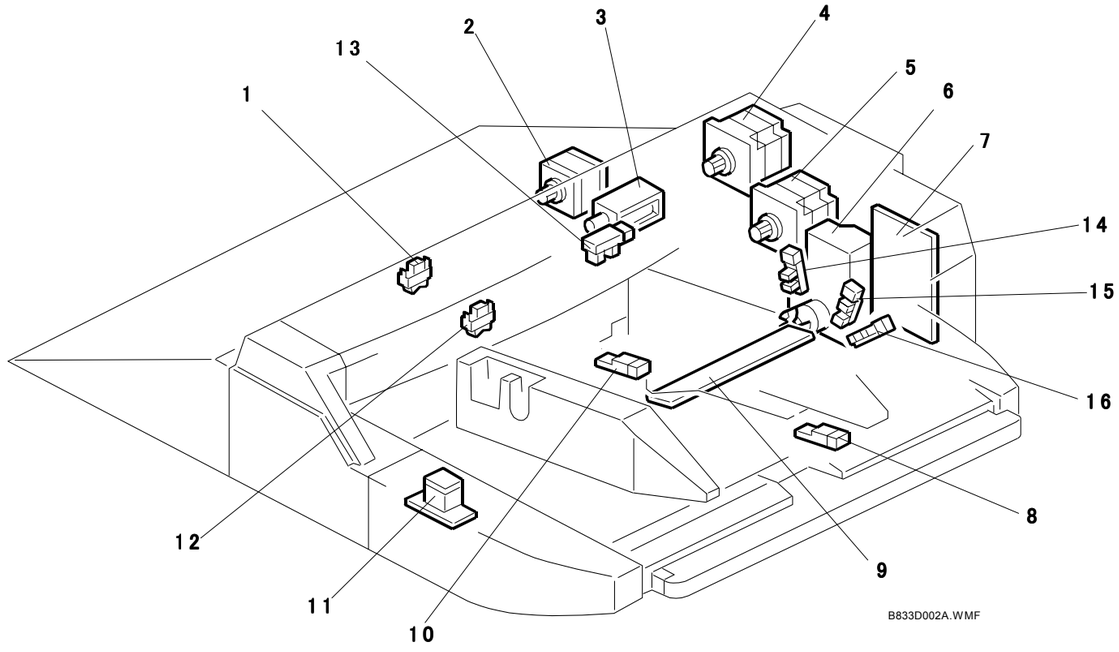
S3 Paper End Sensor
S7 Paper Length Sensor
SW2 Paper Width Switch
bit0
bit1
bit2
bit3
bit4
GND

Relay Motor

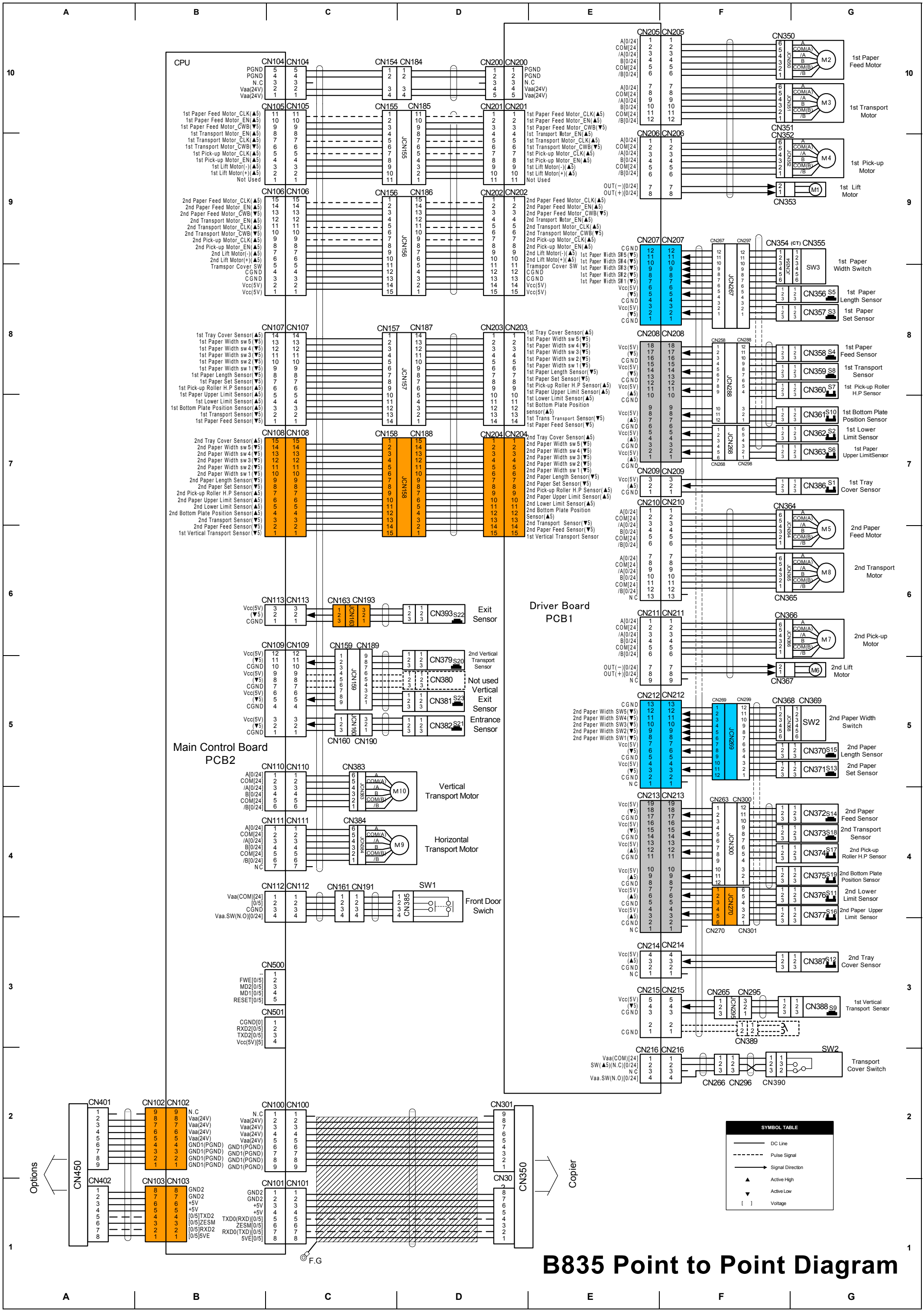
M_H_STM_A[0/24]
COM_A(+24V)[24]
M_H_STM_A-[0/24]
M_H_STM_B[0/24]
COM_B(+24V)[24]
M_H_STM_B-[0/24]
SGND[0]
Relay Sensor[▼5]
Vcc(+5V)[5]
NC
NC
NC
Bypass Tray Set [0/5]
GND[0]

M3
S8 Relay Sensor

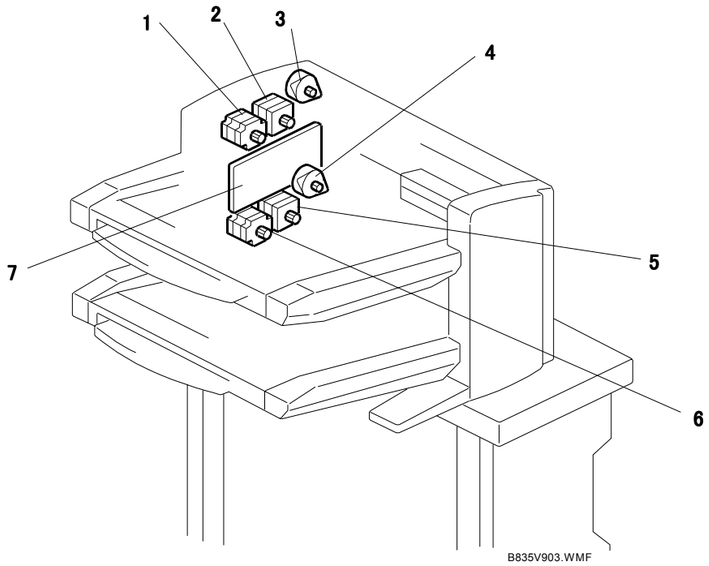
B833 ELECTRICAL COMPONENT LAYOUT



Symbol	Index No.	Description	P to P
Motors			
M1	5	Feed Motor	B9
M2	6	Lift Motor	F9
M3	2	Relay Motor	F3
M4	4	Transport Motor	C9
PCBs			
PCB1	7	Bypass Unit Control Board	F6
Sensors			
S1	13	Lift Sensor	D9
S2	14	Tray Lower Limit Sensor	D9
S3	10	Paper End Sensor	F10
S4	12	Paper Feed Sensor	D9
S5	16	Paper Height Sensor 1	E9
S6	15	Paper Height Sensor 2	E9
S7	8	Paper Length Sensor	E10
S8	1	Relay Sensor	F3
Solenoids			
SOL1	3	Pick-up Solenoid	E9
Switches			
SW1	11	Tray Lift Switch	D9
SW2	9	Paper Width Switches	G10


CPU
CN104 CN104
PGND 5 5
PGND 4 4
N.C 3 3
Vaa(24V) 2 2
Vaa(24V) 1 1
CN154 CN184
CN200 CN200
PGND
PGND
N.C
Vaa(24V)
Vaa(24V)
CN105 CN105
1st Paper Feed Motor_CLK(▲5)
1st Paper Feed Motor_EN(▲5)
1st Paper Feed Motor_CWB(▼5)
1st Transport Motor_EN(▲5)
1st Transport Motor_CLK(▲5)
1st Transport Motor_CWB(▼5)
1st Pick-up Motor_CLK(▲5)
1st Pick-up Motor_EN(▲5)
1st Lift Motor(-)(▲5)
1st Lift Motor(+)(▲5)
Not Used
CN155 CN185
JCN155
CN201 CN201
1st Paper Feed Motor_CLK(▲5)
1st Paper Feed Motor_EN(▲5)
1st Paper Feed Motor_CWB(▼5)
1st Transport Motor_EN(▲5)
1st Transport Motor_CLK(▲5)
1st Transport Motor_CWB(▼5)
1st Pick-up Motor_CLK(▲5)
1st Pick-up Motor_EN(▲5)
1st Lift Motor(-)(▲5)
1st Lift Motor(+)(▲5)
Not Used
CN106 CN106
2nd Paper Feed Motor_CLK(▲5)
2nd Paper Feed Motor_EN(▲5)
2nd Paper Feed Motor_CWB(▼5)
2nd Transport Motor_EN(▲5)
2nd Transport Motor_CLK(▲5)
2nd Transport Motor_CWB(▼5)
2nd Pick-up Motor_CLK(▲5)
2nd Pick-up Motor_EN(▲5)
2nd Lift Motor(-)(▲5)
2nd Lift Motor(+)(▲5)
Tramspor Cover SW
CGND
CGND
Vcc(5V)
Vcc(5V)
CN156 CN186
JCN156
CN202 CN202
2nd Paper Feed Motor_CLK(▲5)
2nd Paper Feed Motor_EN(▲5)
2nd Paper Feed Motor_CWB(▼5)
2nd Transport Motor_EN(▲5)
2nd Transport Motor_CLK(▲5)
2nd Transport Motor_CWB(▼5)
2nd Pick-up Motor_CLK(▲5)
2nd Pick-up Motor_EN(▲5)
2nd Lift Motor(-)(▲5)
2nd Lift Moto(+)(▲5)
Tramspor Cover SW
CGND
CGND
Vcc(5V)
Vcc(5V)
CN107 CN107
1st Tray Cover Sensor(▲5)
1st Paper Width sw 5(▼5)
1st Paper Width sw 4(▼5)
1st Paper Width sw 3(▼5)
1st Paper Width sw 2(▼5)
1st Paper Width sw 1(▼5)
1st Paper Length Sensor(▼5)
1st Paper Set Sensor(▼5)
1st Pick-up Roller H.P Sensor(▲5)
1st Paper Upper Limit Sensor(▲5)
1st Lower Limit Sensor(▲5)
1st Bottom Plate Position Sensor(▲5)
1st Transport Sensor(▼5)
1st Paper Feed Sensor(▼5)
CN157 CN187
JCN157
CN203 CN203
1st Tray Cover Sensor(▲5)
1st Paper Width sw 5(▼5)
1st Paper Width sw 4(▼5)
1st Paper Width sw 3(▼5)
1st Paper Width sw 2(▼5)
1st Paper Width sw 1(▼5)
1st Paper Length Sensor(▼5)
1st Paper Set Sensor(▼5)
1st Pick-up Roller H.P Sensor(▲5)
1st Paper Upper Limit Sensor(▲5)
1st Lower Limit Sensor(▲5)
1st Bottom Plate Position sensor(▲5)
1st Trans Transport Sensor(▼5)
1st Paper Feed Sensor(▼5)
CN108 CN108
2nd Tray Cover Sensor(▲5)
2nd Paper Width sw 5(▼5)
2nd Paper Width sw 4(▼5)
2nd Paper Width sw 3(▼5)
2nd Paper Width sw 2(▼5)
2nd Paper Width sw 1(▼5)
2nd Paper Length Sensor(▼5)
2nd Paper Set Sensor(▼5)
2nd Pick-up Roller H.P Sensor(▲5)
2nd Paper Upper Limit Sensor(▲5)
2nd Lower Limit Sensor(▲5)
2nd Bottom Plate Position Sensor(▲5)
2nd Transport Sensor(▼5)
2nd Paper Feed Sensor(▼5)
1st Vertical Transport Sensor (▼5)
CN158 CN188
JCN158
CN204 CN204
2nd Tray Cover Sensor(▲5)
2nd Paper Width sw 5(▼5)
2nd Paper Width sw 4(▼5)
2nd Paper Width sw 3(▼5)
2nd Paper Width sw 2(▼5)
2nd Paper Width sw 1(▼5)
2nd Paper Length Sensor(▼5)
2nd Paper Set Sensor(▼5)
2nd Pick-up Roller H.P Sensor(▲5)
2nd Paper Upper Limit Sensor(▲5)
2nd Lower Limit Sensor(▲5)
2nd Bottom Plate Position Sensor(▲5)
2nd Transport Sensor(▼5)
2nd Paper Feed Sensor(▼5)
1st Vertical Transport Sensor
CN113 CN113
Vcc(5V)
(▼5)
CGND
CN163 CN193
JCN163
CN393 S22
Exit Sensor
CN109 CN109
Vcc(5V)
(▼5)
CGND
Vcc(5V)
(▼5)
CGND
Vcc(5V)
(▼5)
CGND
CN159 CN189
JCN159
CN379 S20
2nd Vertical Transport Sensor
CN380
Not used
CN381 S23
Vertical Exit Sensor
CN382 S21
Entrance Sensor
CN160 CN190
JCN160
Main Control Board
PCB2
CN110 CN110
A[0/24]
COM[24]
/A[0/24]
B[0/24]
COM[24]
/B[0/24]
CN383
JCN383
M10
Vertical Transport Motor
CN111 CN111
A[0/24]
COM[24]
/A[0/24]
B[0/24]
COM[24]
/B[0/24]
NC
CN384
JCN384
M9
Horizontal Transport Motor
CN112 CN112
Vaa(COM)[24]
[0/5]
CGND
Vaa.SW(N.O)[0/24]
CN161 CN191
SW1
CN385
Front Door Swich
CN500
FWE[0/5]
MD2[0/5]
MD1[0/5]
RESET[0/5]
CN501
CGND[0]
RXD2[0/5]
TXD2[0/5]
Vcc(5V)[5]
CN205 CN205
A[0/24]
COM[24]
/A[0/24]
B[0/24]
COM[24]
/B[0/24]
CN350
JCN350
M2
1st Paper Feed Motor
CN351
JCN351
M3
1st Transport Motor
CN206 CN206
A[0/24]
COM[24]
/A[0/24]
B[0/24]
COM[24]
/B[0/24]
CN352
JCN352
M4
1st Pick-up Motor
OUT(−)[0/24]
OUT(+)[0/24]
M1
CN353
1st Lift Motor
Driver Board
PCB1
CN207 CN207
CGND
1st Paper Width SW5(▼5)
1st Paper Width SW4(▼5)
1st Paper Width SW3(▼5)
1st Paper Width SW2(▼5)
1st Paper Width SW1(▼5)
Vcc(5V)
(▼5)
CGND
Vcc(5V)
(▼5)
CGND
CN267 CN297
JCN267
CN354 (CT) CN355
JCN354
SW3
1st Paper Width Switch
CN356 S5
1st Paper Length Sensor
CN357 S3
1st Paper Set Sensor
CN208 CN208
Vcc(5V)
(▼5)
CGND
Vcc(5V)
(▼5)
CGND
Vcc(5V)
(▲5)
CGND
Vcc(5V)
(▲5)
CGND
Vcc(5V)
(▲5)
CGND
Vcc(5V)
(▲5)
CGND
NC
CN258 CN288
JCN288
CN358 S4
1st Paper Feed Sensor
CN359 S8
1st Transport Sensor
CN360 S7
1st Pick-up Roller H.P Sensor
CN361 S10
1st Bottom Plate Position Sensor
CN362 S2
1st Lower Limit Sensor
CN363 S6
1st Paper Upper LimitSensor
CN268 CN298
CN209 CN209
Vcc(5V)
(▲5)
CGND
CN386 S1
1st Tray Cover Sensor
CN210 CN210
A[0/24]
COM[24]
/A[0/24]
B[0/24]
COM[24]
/B[0/24]
CN364
JCN364
M5
2nd Paper Feed Motor
A[0/24]
COM[24]
/A[0/24]
B[0/24]
COM[24]
/B[0/24]
NC
JCN365
M8
2nd Transport Motor
CN365
CN211 CN211
A[0/24]
COM[24]
/A[0/24]
B[0/24]
COM[24]
/B[0/24]
CN366
JCN366
M7
2nd Pick-up Motor
OUT(−)[0/24]
OUT(+)[0/24]
NC
M6
2nd Lift Motor
CN367
CN212 CN212
CGND
2nd Paper Width SW5(▼5)
2nd Paper Width SW4(▼5)
2nd Paper Width SW3(▼5)
2nd Paper Width SW2(▼5)
2nd Paper Width SW1(▼5)
Vcc(5V)
(▼5)
CGND
Vcc(5V)
(▼5)
CGND
NC
CN269 CN299
JCN269
CN368 CN369
JCN368
SW2
2nd Paper Width Switch
CN370 S15
2nd Paper Length Sensor
CN371 S13
2nd Paper Set Sensor
CN213 CN213
Vcc(5V)
(▼5)
CGND
Vcc(5V)
(▼5)
CGND
Vcc(5V)
(▲5)
CGND
Vcc(5V)
(▲5)
CGND
Vcc(5V)
(▲5)
CGND
Vcc(5V)
(▲5)
CGND
NC
CN263 CN300
JCN300
CN372 S14
2nd Paper Feed Sensor
CN373 S18
2nd Transport Sensor
CN374 S17
2nd Pick-up Roller H.P Sensor
CN375 S19
2nd Bottom Plate Position Sensor
CN376 S11
2nd Lower Limit Sensor
CN377 S16
2nd Paper Upper Limit Sensor
CN270 CN301
JCN270
CN214 CN214
Vcc(5V)
(▲5)
CGND
NC
CN387 S12
2nd Tray Cover Sensor
CN215 CN215
Vcc(5V)
(▼5)
CGND
CGND
CN265 CN295
JCN265
CN388 S9
1st Vertical Transport Sensor
CN389
CN216 CN216
Vaa(COM)[24]
SW(▲5)(N.C)[0/24]
NC
Vaa.SW(N.O)[0/24]
SW2
CN266 CN296
CN390
Transport Cover Switch
CN401
CN450
CN402
CN102 CN102
CN103 CN103
N.C
Vaa(24V)
Vaa(24V)
Vaa(24V)
Vaa(24V)
GND1(PGND)
GND1(PGND)
GND1(PGND)
GND1(PGND)
GND2
GND2
+5V
+5V
[0/5]TXD2
[0/5]ZESM
[0/5]RXD2
[0/5]5VE
CN100 CN100
CN101 CN101
N.C
Vaa(24V)
Vaa(24V)
Vaa(24V)
Vaa(24V)
GND1(PGND)
GND1(PGND)
GND1(PGND)
GND1(PGND)
GND2
GND2
+5V
+5V
TXD0(RXD)[0/5]
ZESM[0/5]
RXD0(TXD)[0/5]
5VE[0/5]
F.G
CN301
CN30
CN350
Options
Copier
SYMBOL TABLE
DC Line
Pulse Signal
Signal Direction
Active High
Active Low
[ ] Voltage
B835 Point to Point Diagram

B835 ELECTRICAL COMPONENT LAYOUT



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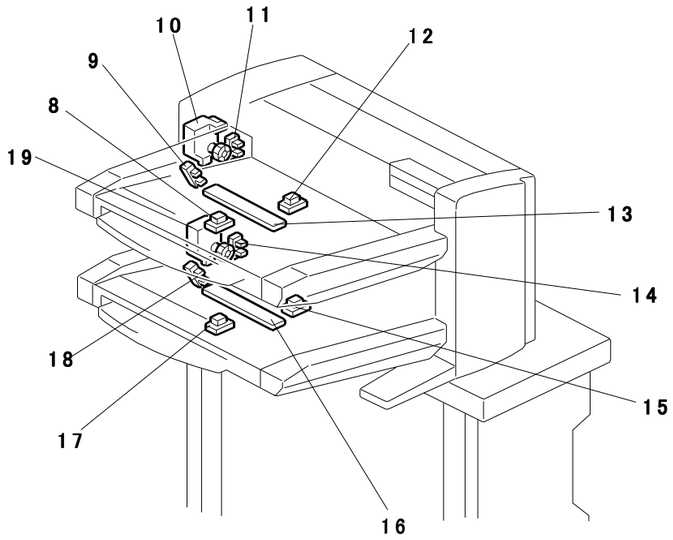

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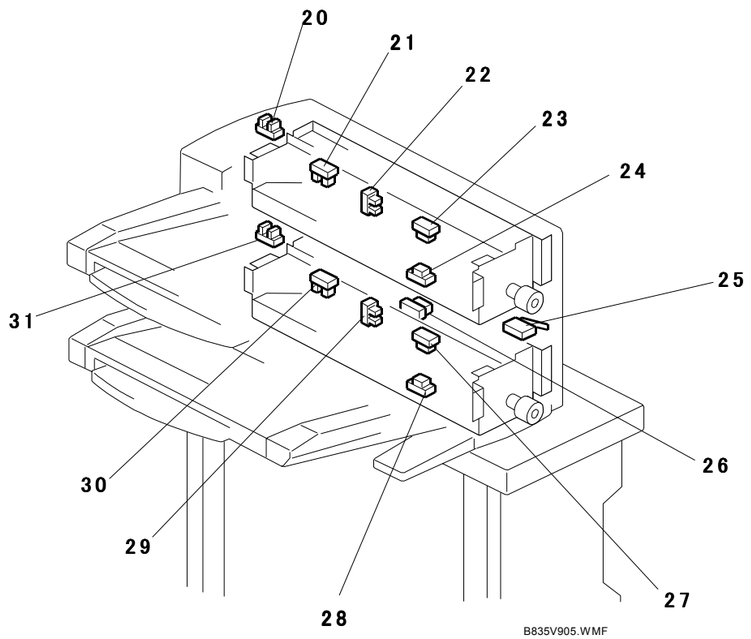

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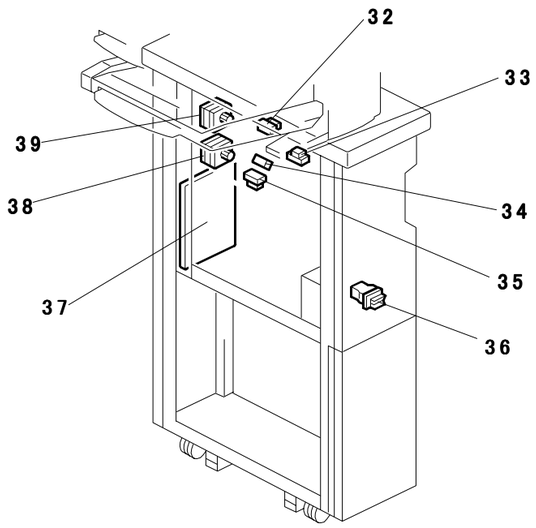

B835V906.WMF

Symbol	Index No.	Description	P to P
Motors			
M1	10	1st Lift Motor	G9
M2	1	1st Paper Feed Motor	G10
M3	3	1st Pick-up Motor	G10
M4	2	1st Transport Motor	G9
M5	6	2nd Feed Motor	G6
M6	19	2nd Lift Motor	G5
M7	4	2nd Pick-up Motor	G6
M8	5	2nd Transport Motor	G6
M9	38	Horizontal Transport Motor	C4
M10	39	Vertical Transport Motor	C4
PCBs			
PCB1	7	Driver Board	E6
PCB2	37	Main Control Board	E5
Sensors			
S1	20	1st Tray Cover Sensor	G7
S2	11	1st Lower Limit Sensor	G7
S3	12	1st paper set sensor	G8
S4	24	1st Paper Feed Sensor	G8
S5	8	1st Paper Length Sensors	G8
S6	9	1st paper upper limit sensor	G7
S7	21	1st Pick-up Roller HP Sensor	G8
S8	23	1st Transport Sensor	G8
S9	26	1st Vertical Transport Sensor	G3
S10	22	1st bottom plate position sensor	G7
S11	14	2nd Lower Limit Sensor	G4
S12	31	2nd tray cover sensor	G3
S13	15	2nd paper set sensor	G5
S14	28	2nd Paper Feed Sensor	G4
S15	17	2nd Paper Length Sensor	G5
S16	18	2nd paper upper limit sensor	G4
S17	30	2nd Pick-up Roller HP Sensor	G4
S18	27	2nd Transport Sensor	G4
S19	29	2nd bottom plate position sensor	G4
S20	32	2nd Vertical Transport Sensor	D5
S21	33	Entrance Sensor	D5
S22	35	Exit Sensor	D6
S23	34	Vertical Exit Sensor	D5
Switches			
SW1	36	Front Door Switch	D4
SW2	25	Transport Cover Switch	G2
SW3	13	1st Paper Width Switch	G8
SW4	16	2nd Paper Width Switch	G5