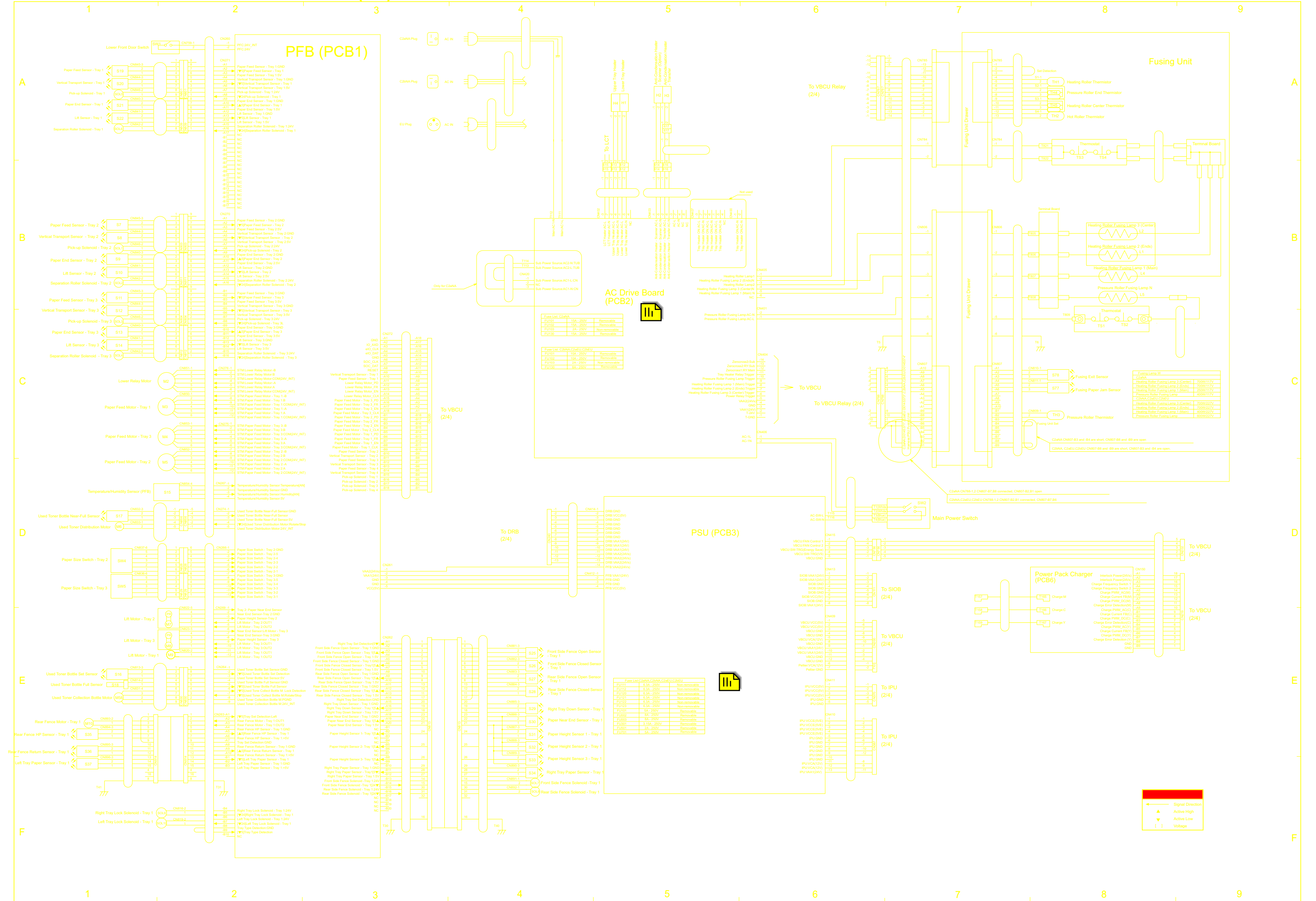


D014/D015 POINT TO POINT DIAGRAM (1/4)



D014/D015 POINT TO POINT DIAGRAM (2/4)



D014/D015 POINT TO POINT DIAGRAM (3/4)

A

B

C

D

E

F

A

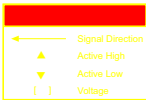
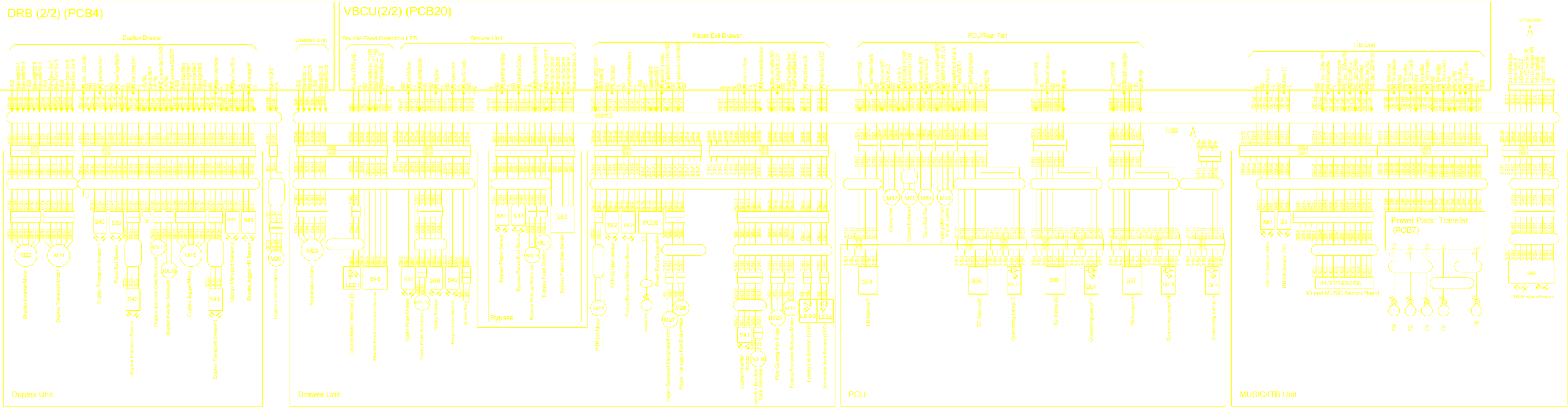
B

C

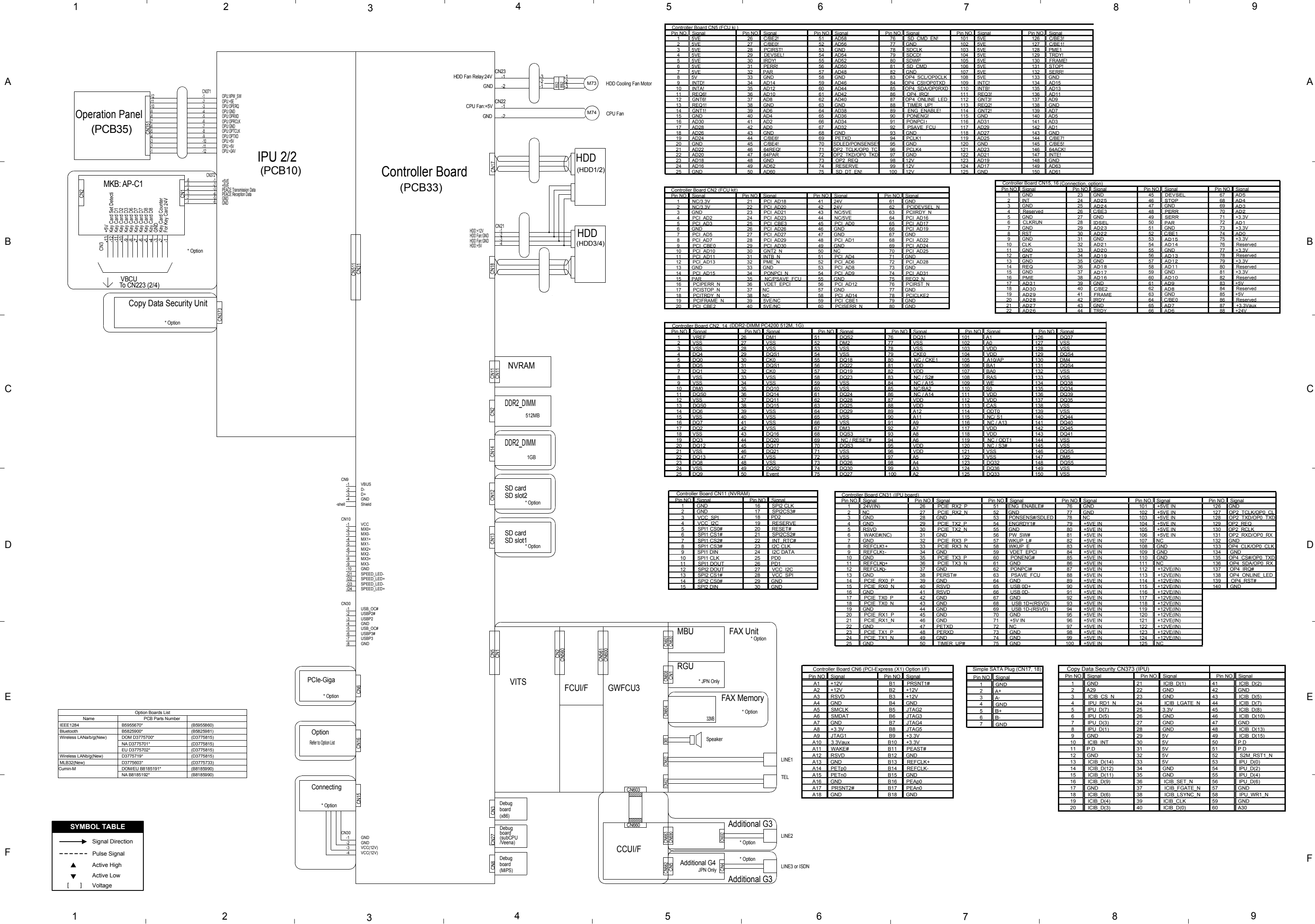
D

E

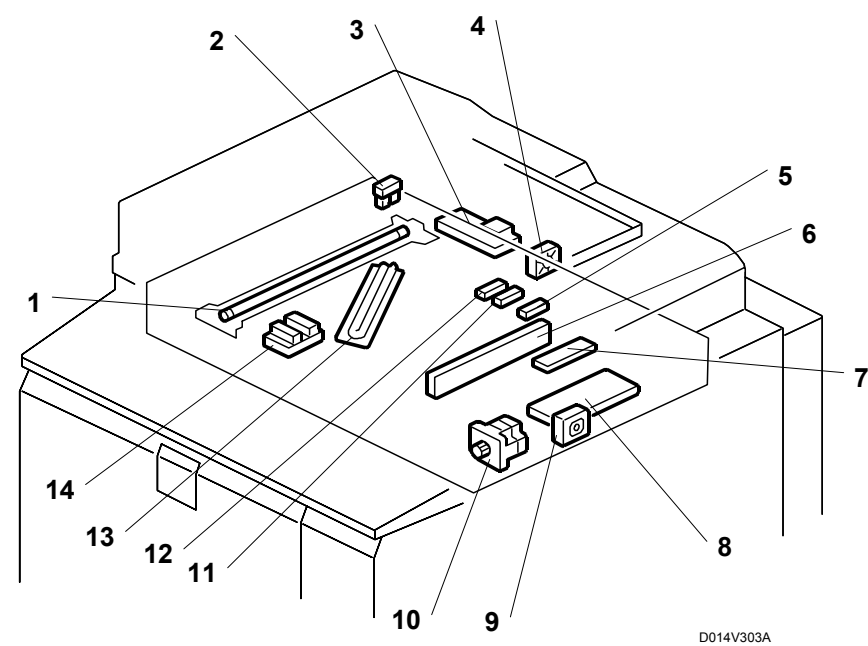
F



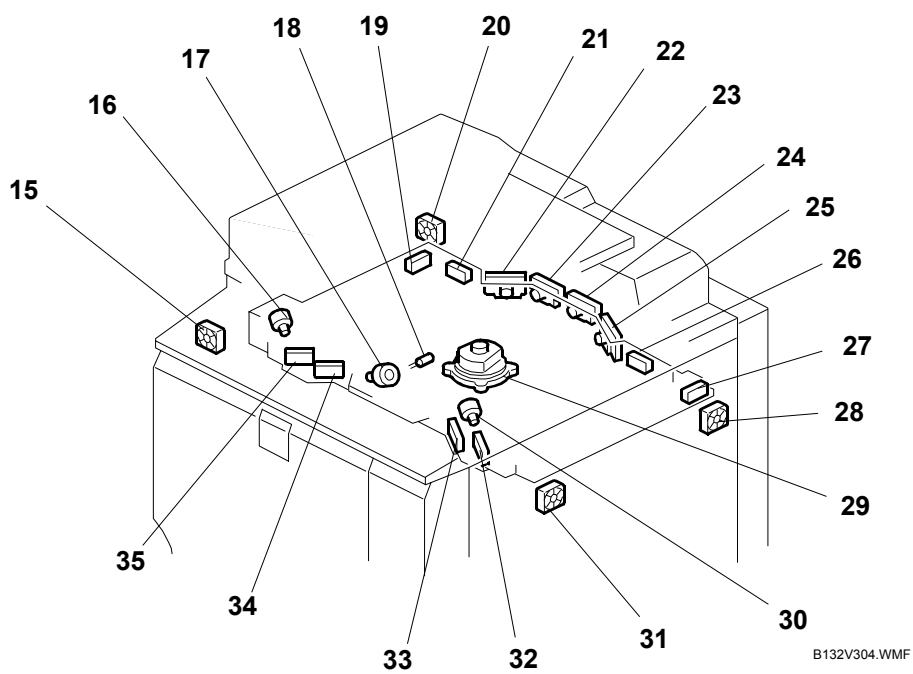
D014/D015 POINT TO POINT DIAGRAM (4/4)



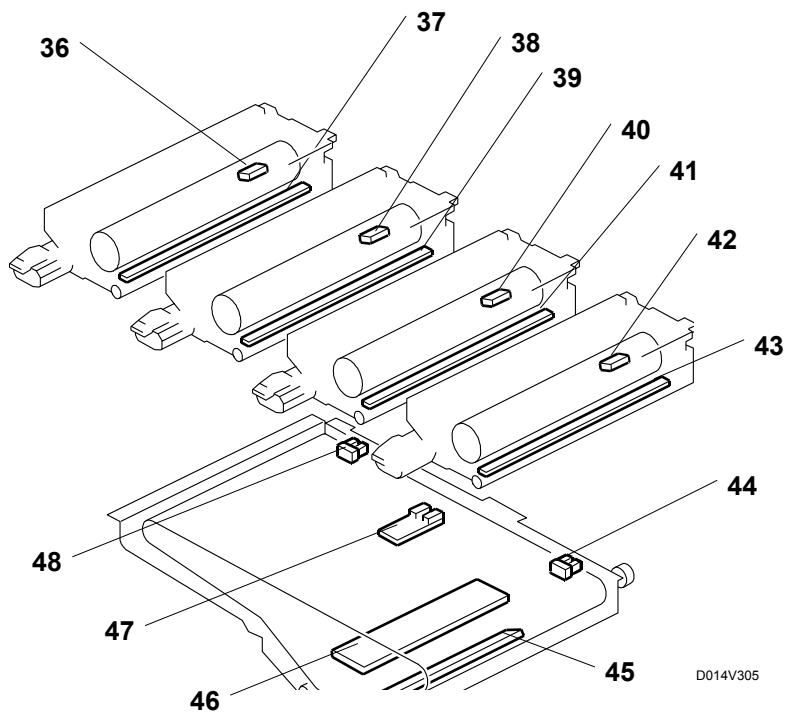
D014/D015 ELECTRICAL COMPONENT LAYOUT (1/3)



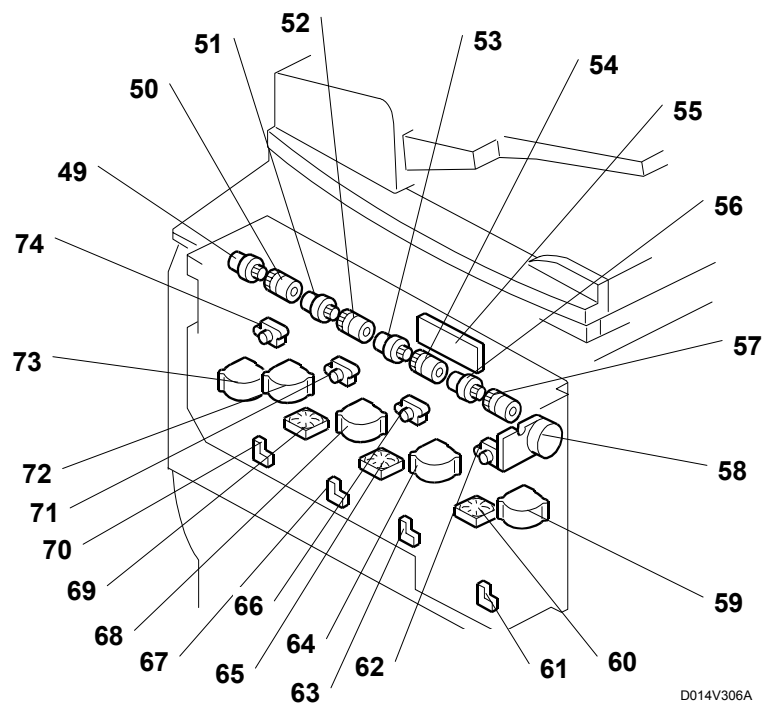
D014V303A



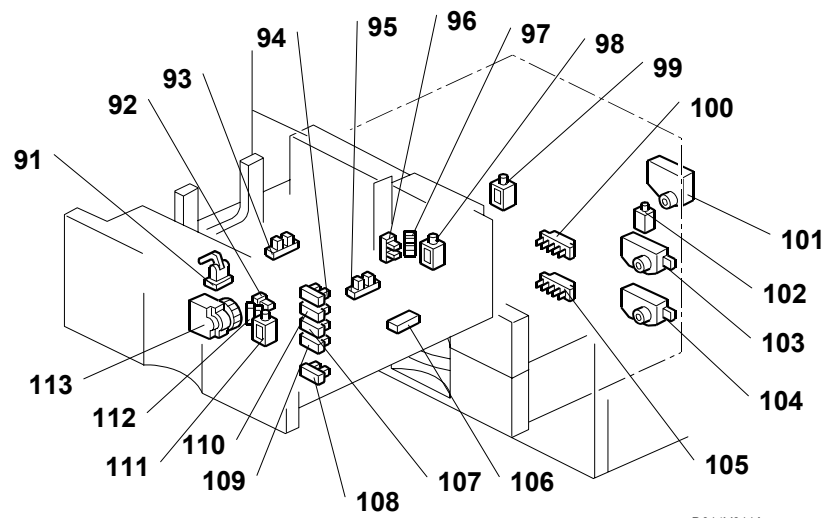
B132V304.WMF



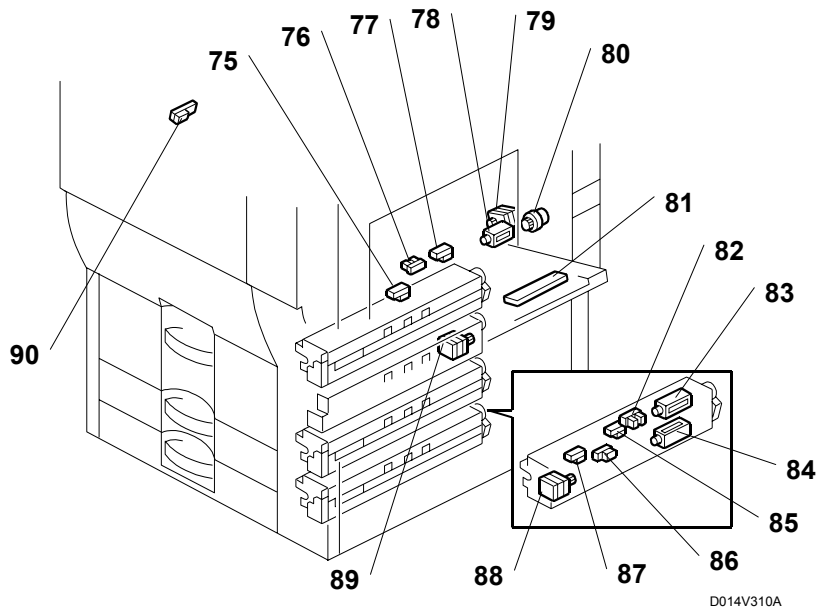
D014V305



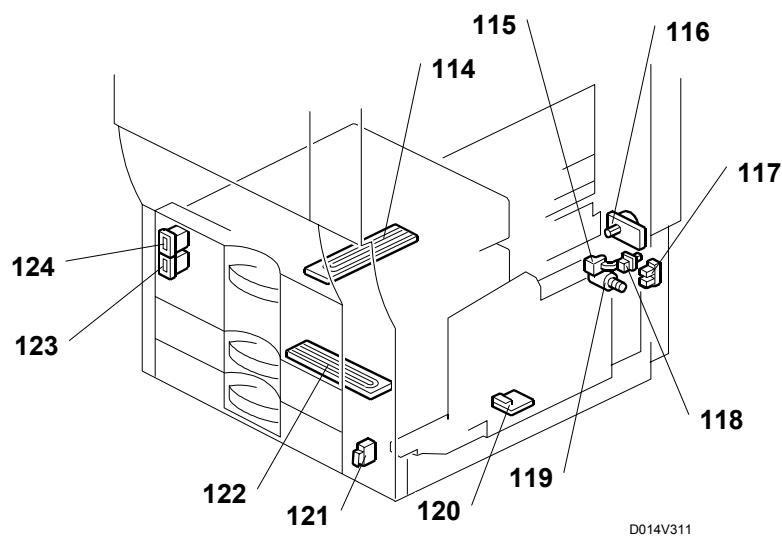
D014V306A



D014V311A

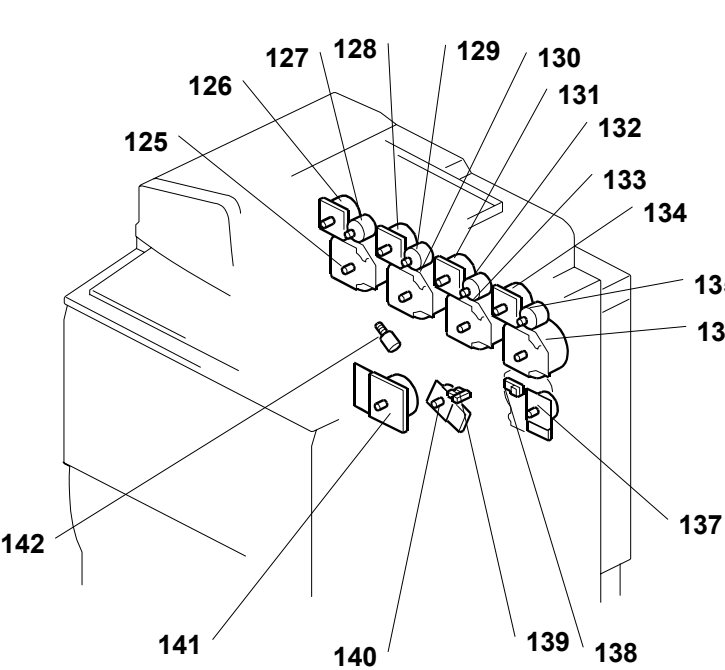


D014V310A

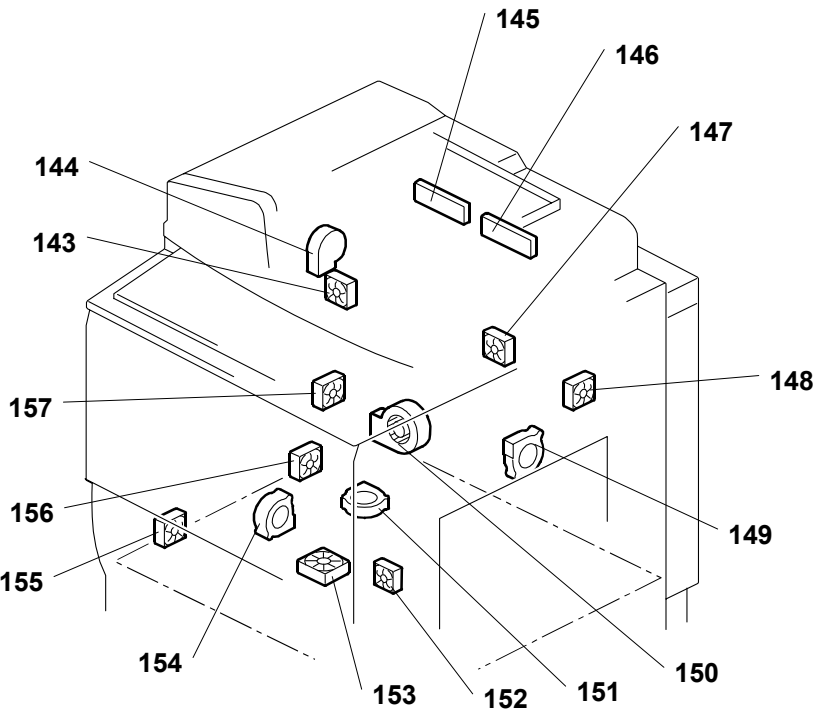


D014V311

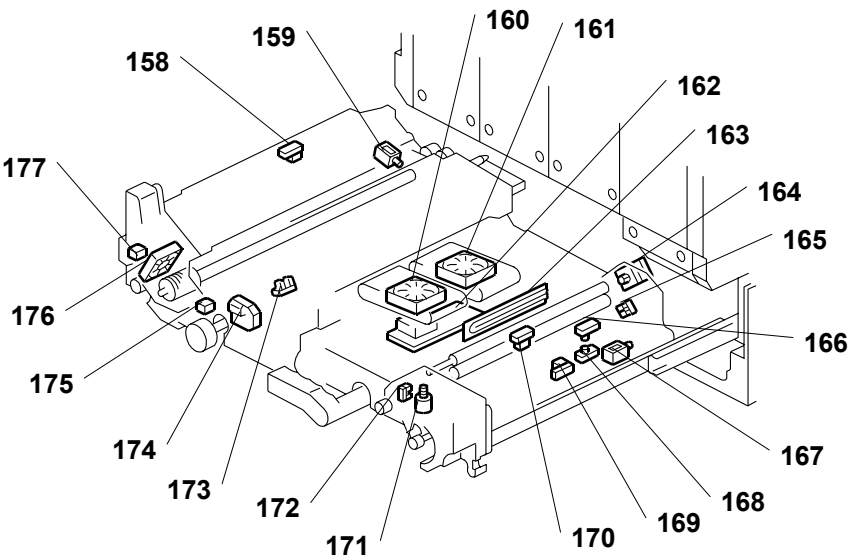
D014/D015 ELECTRICAL COMPONENT LAYOUT (2/3)



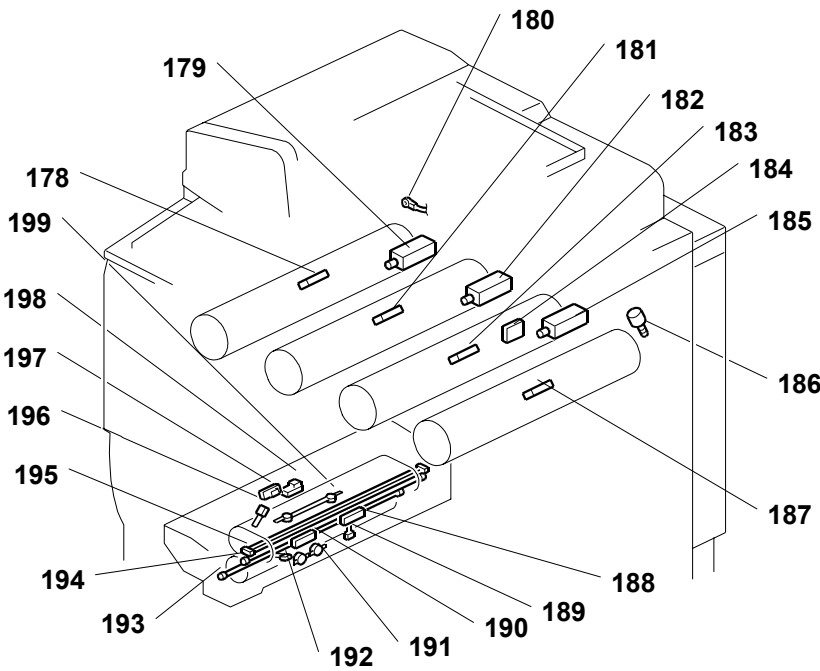
D014V309A



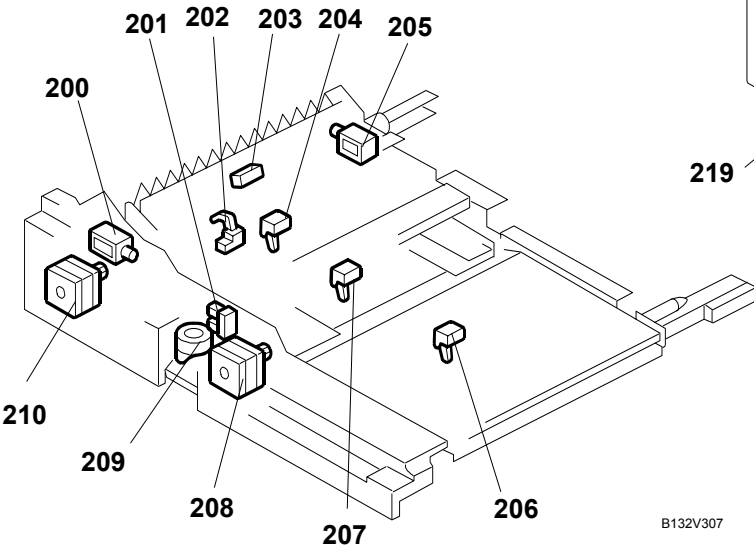
D014V309



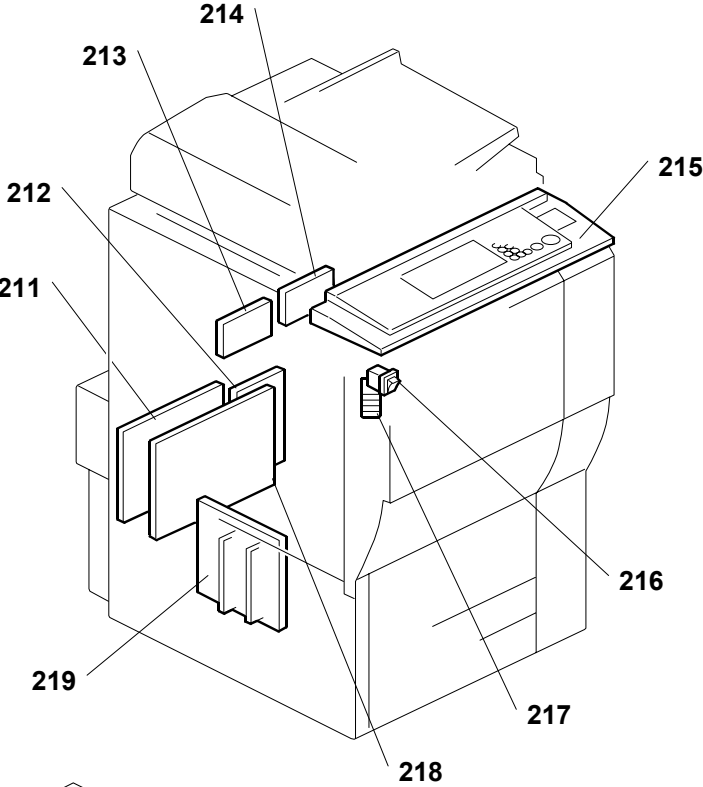
D014V308



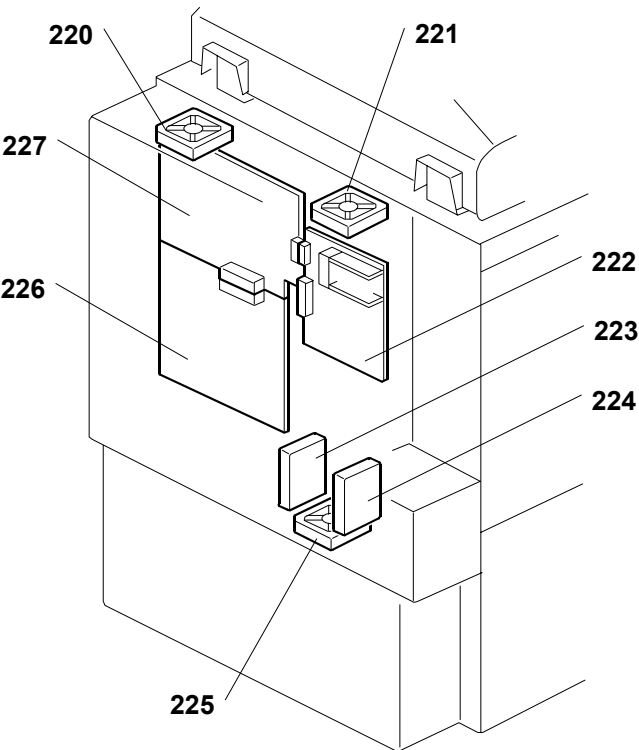
D014V351



B132V307



D014V301



D014V302

D014/D015 ELECTRICAL COMPONENT LAYOUT (3/3)

Symbol	Name	Index No.	P to P	Page
Sensors				
S1	ID Sensor: Black	45	D8	3/4
S2	ID Sensor: Color	45	D8	3/4
S3	ITB Lift Sensor (Full Color)	48	C8	3/4
S4	MUSIC Sensor: Center	45	D8	3/4
S5	MUSIC Sensor: Front	45	D8	3/4
S6	MUSIC Sensor: Rear	45	D8	3/4
S7	Paper Feed Sensor - Tray 2	87	B1	1/4
S8	Vertical Transport Sensor - Tray	86	B1	1/4
S9	Paper End Sensor - Tray 2	85	B1	1/4
S10	Lift Sensor - Tray 2	82	B1	1/4
S11	Paper Feed Sensor - Tray 3	87	B1	1/4
S12	Vertical Transport Sensor - Tray 3	86	C1	1/4
S13	Paper End Sensor - Tray 3	85	C1	1/4
S14	Lift Sensor - Tray 3	82	C1	1/4
S15	Temperature/Humidity Sensor	120	D1	1/4
S16	Used Toner Bottle Set Sensor	115	E1	1/4
S17	Used Toner Bottle Near-Full	117	D1	1/4
S18	Used Toner Bottle Full Sensor	118	E1	1/4
S19	Paper Feed Sensor - Tray 1	87	A1	1/4
S20	Vertical Transport Sensor - Tray	86	A1	1/4
S21	Paper End Sensor - Tray 1	85	A1	1/4
S22	Lift Sensor - Tray 1	82	A1	1/4
S23	Paper Near End Sensor: Tray 2	(103)	E1	1/4
S24	Paper Near End Sensor: Tray 3	(104)	E1	1/4
S25	Front Side Fence Open Sensor - Tray 1	112	E4	1/4
S26	Front Side Fence Closed Sensor - Tray 1	92	E4	1/4
S27	Rear Side Fence Open Sensor - Tray 1	97	E4	1/4
S28	Rear Side Fence Closed Sensor - Tray 1	96	E4	1/4
S29	Right Tray Down Sensor - Tray 1	108	E4	1/4
S30	Paper Near End Sensor - Tray 1	94	E4	1/4
S31	Paper Height Sensor 1- Tray 1	110	E4	1/4
S32	Paper Height Sensor 2- Tray 1	107	E4	1/4
S33	Paper Height Sensor 3- Tray 1	109	F4	1/4
S34	Right Tray Paper Sensor - Tray 1	106	F4	1/4
S35	Rear Fence HP Sensor - Tray 1	93	E1	1/4
S36	Rear Fence Return Sensor - Tray	95	E1	1/4
S37	Left Tray Paper Sensor - Tray 1	91	F1	1/4
S38	Internal Temperature Sensor	180	B5	2/4
S39	Used Toner Lock Sensor	139	F2	2/4
S40	Duplex Transport Sensor 1	204	C1	3/4
S41	Duplex/Inverter Sensor	202	D5	3/4
S42	Duplex Entrance Sensor	203	D1	3/4
S43	Duplex Transport Sensor 3	206	D2	3/4
S44	Duplex Transport Sensor 2	207	C2	3/4
S45	Duplex Jogger HP Sensor	201	C2	3/4
S46	Double-Feed Detection Sensor	166	D3	3/4
S47	Guide Plate Sensor	165	D3	3/4
S48	Relay Sensor	169	D3	3/4
S49	Registration Sensor	170	D3	3/4
S50	Paper Exit Sensor	158	C1	3/4
S51	Bypass Paper Feed Sensor	77	C3	3/4
S52	Bypass Paper End Sensor	76	C3	3/4
S53	Bypass Paper Size Sensor	81	D4	3/4
S54	Paper Exit Relay Sensor	90	F5	2/4
S56	TD Sensor - M	40	D6	3/4
S57	TD Sensor - K	42	D7	3/4
S58	Temperature/Humidity Sensor (K PCU)	184	D6	2/4
S59	TD Sensor - Y	36	D5	3/4
S60	TD Sensor - C	38	D6	3/4
S61	ITB Lift Sensor (BW)	44	C8	3/4
S62	Fusing Pressure Release Sensor	173	C4	3/4
S63	Potential Sensor - K	187	B6	2/4
S64	Potential Sensor - M	183	B6	2/4
S65	Potential Sensor - C	181	B6	2/4
S66	Potential Sensor - Y	178	B6	2/4
S67/S6	Laser Unit Temperature Sensor	18	D9	2/4
S69	Toner End Sensor - M	66	C1	2/4
S70	Toner End Sensor - K	62	C1	2/4
S71	Toner End Sensor - Y	74	B1	2/4
S72	Toner End Sensor - C	71	B1	2/4
S73	Scanner HP Sensor	2	B5	2/4
S74	Original Width Sensors	14	A5	2/4
S75	Original Length Sensor - 1	12	A5	2/4
S76	Original Length Sensor -2	11	B5	2/4
S77	Accordion Jam Sensor	197	C8	1/4
S78	Fusing Exit Sensor	198	C8	1/4
S79	LCT Relay Sensor	75	F2	2/4
S80	Original Length Sensor -3	5	B5	2/4
S81	Encoder	138	C3	2/4
S82	PTR Contact Sensor	172	C4	3/4
S83	ITB Position Sensor	45	D9	3/4

Symbol	Name	Index No.	P to P	Page
Motors				
M1	Scanner Motor	10	B5	2/4
M2	Lower Relay Motor	89	C1	1/4
M3	Paper Feed Motor - Tray 1	88	C1	1/4
M4	Paper Feed Motor - Tray 3	88	C1	1/4
M5	Paper Feed Motor - Tray 2	88	D1	1/4
M6	Used Toner Distribution Motor	119	D1	1/4
M7	Lift Motor - Tray 2	103	E1	1/4
M8	Lift Motor - Tray 3	104	E1	1/4
M9	Lift Motor - Tray 1	101	E1	1/4
M10	Rear Fence Motor - Tray 1	113	E1	1/4
M11	ITB Lift Motor	142	E6	2/4
M12	Ozone Fan	151	C6	3/4
M13	Fusing Unit Fan Motor: Lower	144	C6	3/4
M14	Fusing Cooling Fan Motor	15	F4	2/4
M15	Fusing Exhaust Fan Motor	20	F4	2/4
M16	Fusing/Exit Motor	141	F2	2/4
M17	PTR Motor	140	F3	2/4
M18	Bypass Feed Motor	79	F3	2/4
M19	Duplex Jogger Motor	209	D2	3/4
M20	Duplex Unit Fan Motor	153	D2	3/4
M21	Duplex Transport Motor	208	D1	3/4
M22	Duplex Inverter Motor	210	D1	3/4
M23	Registration Motor	164	D2	3/4
M24	Belt Cleaning Fan	154	D7	2/4
M25	Pipe Cooling Fan Motor	176	D5	3/4
M26	Paper Transport Fan Motor - Rear	161	D4	3/4
M27	Paper Transport Fan Motor -	160	D4	3/4
M28	Paper Exit Fan Motor	157	F5	2/4
M29	Front Duplex Fan Motor	155	F6	2/4
M30	Rear Duplex Fan Motor	156	F6	2/4
M31	Potential Sensor Fan	152	D6	2/4
M32	Peltier Cooling Fan Motor	148	D6	2/4
M33	Peltier Circulation Fan Motor	147	D6	2/4
M34	Laser Unit Cooling Fan Motor -	31	D6	2/4
M35	Laser Unit Cooing Fan Motor -	28	D6	2/4
M36	Development Motor: Y	126	B3	2/4
M37	Development Motor: C	128	B3	2/4
M38	Development Motor: M	131	B3	2/4
M39	Development Motor: K	134	C3	2/4
M40	Controller Box Exhaust Fan	220	D6	2/4
M41	Controller Box Exhaust Fan	221	C5	2/4
M42	Drum Motor - Y	125	B3	2/4
M43	Drum Motor - C	130	B3	2/4
M44	Drum Motor - M	133	B3	2/4
M45	Drum Motor - K	136	C3	2/4
M46	ITB Drive Motor	137	C3	2/4
M47	3rd Mirror Motor - M	30	D8	2/4
M48	Polygon Mirror Motor	29	D8	2/4
M49	3rd Mirror Motor - Y	16	D9	2/4
M50	3rd Mirror Motor - C	17	D9	2/4
M51	Toner Hopper Motor	58	C1	2/4
M52	PCU Fan Motor - Y	73	B1	2/4
M53	PCU Fan Motor - C	69	B1	2/4
M54	PCU Fan Motor - M	65	B1	2/4
M55	PCU Fan Motor - K	60	C1	2/4
M56	Scanner Unit Fan Motor - Rear	4	B6	2/4
M57	Scanner Unit Fan Motor - Right	9	B5	2/4
M58	Used Toner Collection Bottle	116	E1	1/4
M59	Development Intake Fan – K	59	B1	2/4
M60	Development Intake Fan – M	64	B1	2/4
M61	Development Intake Fan – C	68	B1	2/4
M62	Development Intake Fan – Y	72	B1	2/4
M63	Drum Cleaning Motor (Y)	127	C3	2/4
M64	Drum Cleaning Motor (C)	129	C3	2/4
M65	Drum Cleaning Motor (M)	132	C3	2/4
M66	Drum Cleaning Motor (K)	135	D3	2/4
M67	Charge Wire Cleaner Motor	186	D6	2/4
M68	Ozone Intake Fan	149	D7	2/4
M69	Drive Exit Fan	143	C6	3/4
M70	Ozone Exhaust Fan	150	C6	3/4
M71	PTR Lift Motor	171	D4	3/4
M72	Fusing Pressure Release Motor	174	D5	3/4
M73	HDD Cooling Fan Motor	225	A4	4/4
M74	CPU Fan	226	A4	4/4

Symbol	Name	Index No.	P to P	Page
PCBs				
PCB1	PFB	212	A3	1/4
PCB2	AC Drive Board	219	B5	1/4
PCB3	PSU	218	D5	1/4
PCB4	DRB	214	E1/B1	2/4, 3/4
PCB5	Power Pack: Development Bias	146	C5	2/4
PCB6	Charge Roller Power Pack	211	D8	1/4
PCB7	Power Pack: Transfer	46	C9	3/4
PCB8	Power Pack: Separate	162	C4	3/4
PCB9	DTMB	213	D2	2/4
PCB10	IPU	227	D7/B2	2/4, 4/4
PCB11	Potential Sensor Board	145	C6	2/4
PCB12	CNB	55	C1	2/4
PCB13	IDCB: C1	67	A1	2/4
PCB14	IDCB: M1	63	A1	2/4
PCB15	IDCB: K1	61	A1	2/4
PCB16	IDCB: Y1	70	A1	2/4
PCB17	SBU	6	A6	2/4
PCB18	SIOB	8	B5	2/4
PCB19	Lamp Regulator	3	B5	2/4
PCB20	VBCU	226	E4/B3	2/4, 3/4
PCB21	LDB (K)	25	A8	2/4
PCB22	LDB (M)	24	B8	2/4
PCB23	LDB (C)	22	C8	2/4
PCB24	LDB (Y)	23	C8	2/4
PCB25	LSD: Front: K	27	A8	2/4
PCB26	LSD: Front: M	26	A8	2/4
PCB27	LSD: Front: C	21	A8	2/4
PCB28	LSD: Front: Y	19	A8	2/4
PCB29	LSD: Rear: Y	35	A8	2/4
PCB30	LSD: Rear: C	34	A8	2/4
PCB31	LSD: Rear: M	33	A8	2/4
PCB32	LSD: Rear: K	32	A8	2/4
PCB33	Controller Board	222	B3	4/4
PCB34	SCNB	7	A7	2/4
PCB35	Operation Panel	215	A1	4/4

Symbol	Name	Index No.	P to P	Page
Solenoids				
SOL1	Pick-up Solenoid - Tray 2	83	B1	1/4
SOL2	Separation Roller Solenoid - Tray	84	B1	1/4
SOL3	Pick-up Solenoid - Tray 3	83	C1	1/4
SOL4	Separation Roller Solenoid - Tray	84	C1	1/4
SOL5	Pick-up Solenoid - Tray 1	83	A1	1/4
SOL6	Separation Roller Solenoid - Tray	84	A1	1/4
SOL7	Front Side Fence Solenoid -Tray 1	111	F4	1/4
SOL8	Rear Side Fence Solenoid - Tray	98	F4	1/4
SOL9	Right Tray Lock Solenoid - Tray 1	102	F1	1/4
SOL10	Left Tray Lock Solenoid - Tray 1	99	F1	1/4
SOL11	Duplex Junction Gate Solenoid	205	D2	3/4
SOL13	Guide Plate Solenoid	167	D3	3/4
SOL14	Inverter Junction Gate Solenoid	159	D5	3/4
SOL15	Bypass Pick-up Solenoid	78	D4	3/4
SOL16	Charge Cleaning Solenoid: Y	179	D6	2/4
SOL17	Charge Cleaning Solenoid: C	182	D6	2/4
SOL18	Charge Cleaning Solenoid: M	185	D6	2/4
SOL19	Duplex Inverter Solenoid	200	D2	3/4

Symbol	Name	Index No.	P to P	Page
Magnetic Clutches				
MC1	Bypass Feed Clutch	80	D4	3/4
MC2	Toner Pump Clutch - M	53	B1	2/4
MC3	Toner Supply Clutch - M	54	B1	2/4
MC4	Toner Pump Clutch: K	56	C1	2/4
MC5	Toner Supply Clutch: K	57	C1	2/4
MC6	Toner Pump Clutch - Y	49	B1	2/4
MC7	Toner Supply Clutch - Y	50	B1	2/4
MC8	Toner Pump Clutch - C	51	A1	2/4
MC9	Toner Supply Clutch - C	52	A1	2/4

Symbol	Name	Index No.	P to P	Page
Switches				
SW1	Lower Front Door Switch	121	A2	1/4
SW2	Main Power Switch	216	D7	1/4
SW4	Paper Size Switch - Tray 2	100	D1	1/4
SW5	Paper Size Switch - Tray 3	105	D1	1/4
SW6	Interlock Switches	217	D3/F4	2/4

Symbol	Name	Index No.	P to P	Page
Quenching Lamps				
QL1	Quenching Lamp - K	43	D7	3/4
QL2	Quenching Lamp - C	39	D6	3/4
QL3	Quenching Lamp - M	41	D7	3/4
QL4	Quenching Lamp - Y	37	D7	3/4

Symbol	Name	Index No.	P to P	Page
Lamps				
L1	Exposure Lamp	1	B6	2/4
L2	Heating Roller Fusing Lamp 2	195	B8	1/4
L3	Heating Roller Fusing Lamp 3 (Center)	195	B8	1/4
L4	Heating Roller Fusing Lamp 1	194	B8	1/4
L5	Pressure Roller Fusing Lamp	193	B8	1/4

Symbol	Name	Index No.	P to P	Page
LEDs				
LED1	Double-Feed Detection LED	168	D3	3/4
LED2	Accordion Jam Sensor (LED)	177	D5	3/4
LED3	Fusing Exit Sensor (LED)	175	D5	2/4

Symbol	Name	Index No.	P to P	Page
Heaters				
H1	Lower Tray Heater	122	A5	1/4
H2	Anti-Condensation Heater - Scanner (Option)	13	A5	2/4
H3	Anti-Condensation Heater -	163	A5	1/4
H4	Upper Tray Heater	114	A5	1/4

Symbol	Name	Index No.	P to P	Page
Thermistors				
TH1	Heating Roller Thermistor	192	A8	1/4
TH2	Hot Roller Thermistor	196	A8	1/4
TH3	Pressure Roller Thermistor	189	C8	1/4
TH4	Heating Roller Center Thermistor	188	A8	1/4
TH5	Heating Roller End Thermistor	190	A8	1/4

Symbol	Name	Index No.	P to P	Page
Thermostats				
TS1/2	Thermostats	191	A8/C8	1/4
TS3/4	Thermostats	199	A8/C8	1/4

Symbol	Name	Index No.	P to P	Page
HDDs				
HDD1/2	HDD 1/2	223	B4	4/4
HDD3/4	HDD 3/4	224	B4	4/4

Symbol	Name	Index No.	P to P	Page
Counters				
TC1	Total Counter - FC	124	F6	2/4
TC2	Total Counter - K	123	F5	2/4

SYMBOL TABLE

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

Main Board (PCB 1) Connections:

- Original Width Sensors (S1-S5):** Connected to CN300-3, CN301-3, CN302-3, CN303-3, and CN317-3.
- Pick-up Roller HP Sensor (S6):** Connected to CN304-3.
- Original Set Sensor (S7):** Connected to CN315-3.
- Bottom Plate HP Sensor (S8):** Connected to CN316-3.
- Feed Cover Open Sensor (S9):** Connected to CN318-3.
- Bottom Plate Position Sensor (S10):** Connected to CN321-3.
- Upper Inverter Sensor (S11):** Connected to CN319-3.
- Lower Inverter Sensor (S12):** Connected to CN320-3.
- Original Length Sensor 1 (LG) (S13):** Connected to CN312-4.
- Original Length Sensor 2 (A4) (S14):** Connected to CN313-4.
- Original Length Sensor 3 (B5) (S15):** Connected to CN314-4.
- ARDF Position Sensor (S16):** Connected to CN310-3.
- APS Start Sensor (S17):** Connected to CN311-3.
- Interval Sensor (S18):** Connected to CN305-3.
- Skew Correction Sensor (S19):** Connected to CN306-3.
- Separation Sensor (S20):** Connected to CN307-3.
- Exit Sensor (S21):** Connected to CN308-3.
- Registration Sensor (S22):** Connected to CN309-3.

Motor Connections:

- M1 (Feed Motor):** Connected to CN331-3.
- M2 (Transport Motor):** Connected to CN332-3.
- M4 (Upper Inverter Motor):** Connected to CN112-1.
- M3 (Exit Motor):** Connected to CN115-1.
- M5 (Lower Inverter Motor):** Connected to CN110-1.
- M7 (Bottom Plate Lift Motor):** Connected to CN110-1.
- M6 (Pick-up Motor):** Connected to CN111-1.

Solenoid Connections:

- SOL1 (Upper Junction Gate Solenoid):** Connected to CN333-3.
- SOL2 (Lower Junction Gate Solenoid):** Connected to CN334-3.

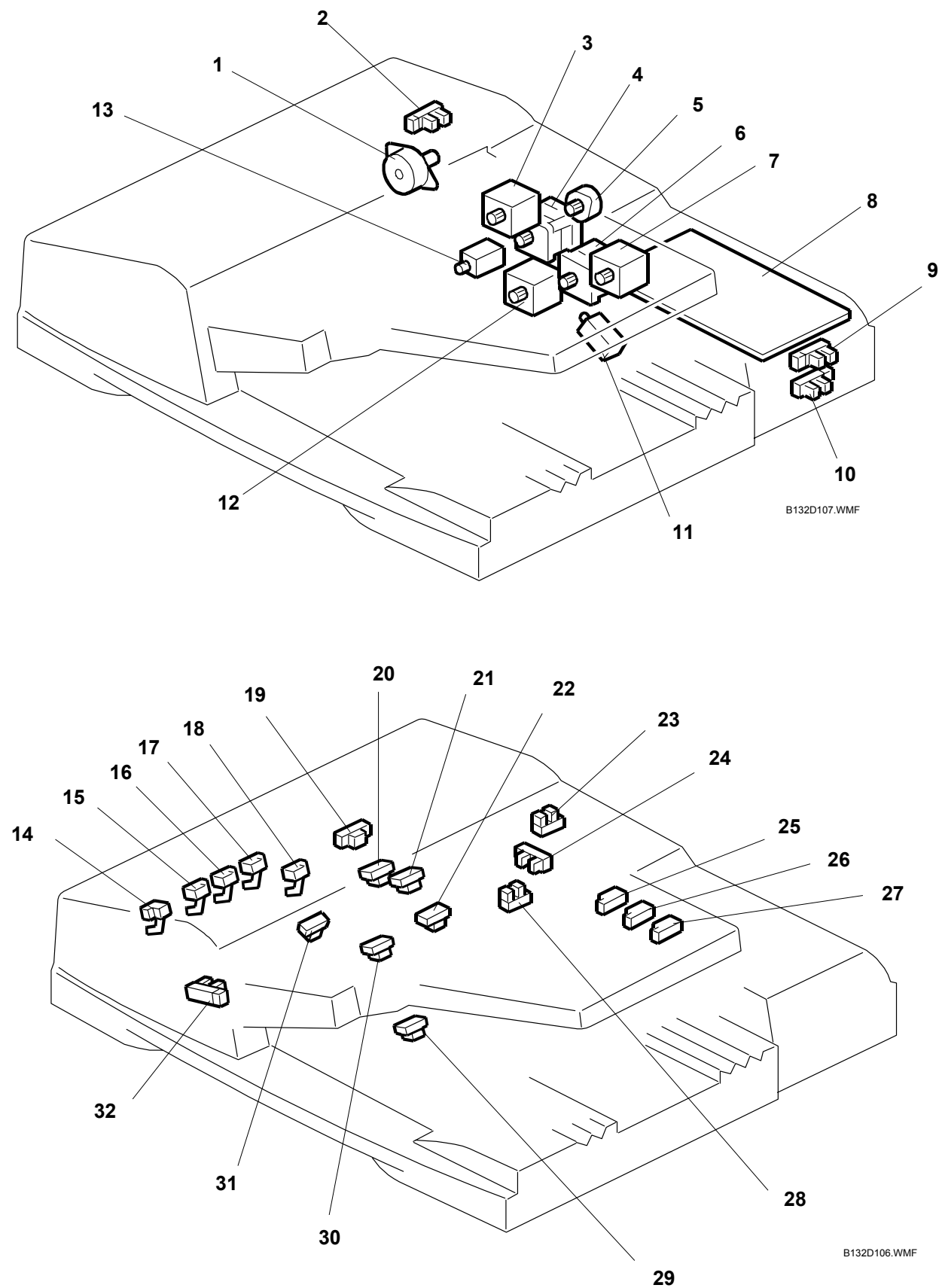
Copier Connections:

- Connected to CN1-8, CN2-9, CN3-P1, CN3-P2, CN3-P3, and CN3-P4.

Other Connections:

- UL3385 AWG18(B):** Connected to CN100-1.

ADF (FOR D014/D015) ELECTRICAL COMPONENT LAYOUT



Symble	Name	Index No.	P to P
Boards			
PCB1	Main Board	8	E4
Motors			
M1	Feed Motor	4	H6
M2	Transport Motor	6	H6
M3	Upper Inverter Motor	7	H5
M4	Exit Motor	3	H5
M5	Lower Inverter Motor	12	H4
M6	Pick-up Motor	1	H4
M7	Bottom Plate Lift Motor	5	H3
Sensors			
S1	Original Width Sensor 1	17	B6
S2	Original Width Sensor 2	16	B6
S3	Original Width Sensor 3	15	B6
S4	Original Width Sensor 4	14	B6
S5	Original Width Sensor 5 (for B6 SEF)	18	B5
S6	Pick-up Roller HP Sensor	2	B5
S7	Original Set Sensor	28	B5
S8	Bottom Plate HP Sensor	32	B5
S9	Feed Cover Open Sensor	23	B4
S10	Bottom Plate Position Sensor	24	B4
S11	Upper Inverter Sensor	22	B4
S12	Lower Inverter Sensor	29	B4
S13	Original Length Sensor 1 (LG)	25	B3
S14	Original Length Sensor 2 (A4)	26	B3
S15	Original Length Sensor 3 (B5)	27	B3
S16	ARDF Position Sensor	9	B2
S17	APS Start Sensor	10	B2
S18	Interval Sensor	19	B2
S19	Skew Correction Sensor	20	B2
S20	Separation Sensor	21	B1
S21	Exit Sensor	30	B1
S22	Registration Sensor	31	B1
Solenoids			
SOL1	Upper Junction Gate Solenoid	11	H3
SOL2	Lower Junction Gate Solenoid	13	H2