D135/D136 / D137/D138 POINT TO POINT DIAGRAM (1/5)

< Laser Unit (C,K) >
Laser Synchronization Detector Board (C):LE PCB23
Laser Synchronization Detector Board (C):TE PCB24
Laser Synchronization Detector Board (K):LE PCB25
Laser Synchronization Detector Board (K):TE PCB26
LD Board (C,K) (PCB15)
Polygon Motor (C,K) M7
Polygon Motor Drive Board (C,K) (PCB31)
Lens Positioning Motor (C) M5
LD Unit Thermistor (C,K) TH2
LD Shutter Motor (C, K only) M2
LD Shutter Sensor (C, K only) S117

< Laser Unit (Y,M) >
Laser Synchronization Detector Board (Y):LE PCB27
Laser Synchronization Detector Board (Y):TE PCB28
Laser Synchronization Detector Board (M):LE PCB29
Laser Synchronization Detector Board (M):TE PCB30
LD Board (Y,M) (PCB16)
Polygon Motor (Y,M) M6
Polygon Motor Drive Board (Y,M) (PCB32)
Lens Positioning Motor (M) M4
LD Unit Thermistor (Y,M) TH1
Lens Positioning Motor (Y) M3

IPU (PCB1)
IPU-SUB (PCB3)
SIO (PCB5)
SBU (PCB4)
M1 Scanner Motor
S2 APS Sensor 2
S1 APS Sensor 1
S3 Scanner HP Sensor
IDB (PCB6)
Scanner Lamp (LED) (L5)
< Scanner Unit >
CIS
ADF Main Board
< ADF >

BCU
Attention Light (D137/D138) (OT3)
< Operation panel (D137/D138) >
OP-R
LCDC
LCD
OP-U (D137/D138)
Touch Panel
USB
SD
(OT2)
< Operation panel (D135/D136) >
OP-L
OP-R
LCDC
LCD
Touch Panel
(OT1)
Face Plate Set Switch (D137/D138) SW2
Heat Pipe Panel Intake Fan FAN11
Main Switch (DCスイッチSwitch) SW1
S115 ADF Position Sensor
TH3 Temperature/Humidity Sensor
SW3 Upper Right Cover Switch
LED 1 By-pass Cover LED
S116 PCU Temperature/Humidity Sensor (K)
FAN3 Controller Box Exhaust Fan

< ITB Unit >
Drawer CN750
PTR Drive Motor M15
PTR Drive Motor Encorder 1 S118
PTR Drive Motor Encorder 2 S119
ITB Lift Motor M14
Waste Toner Transport Motor Sensor S34
Heat Pipe Unit Set Switch SW4
Finisher (Option)
Waste Toner Transport Motor M8
Fusing Roller Lift Motor M57
Laser Unit Cooling Fan (R) FAN5
Laser Unit Cooling Fan (L) FAN4
Waste Toner Transport Thermistor TH4
ITB Motor Cooling Fan FAN26
ID Sensor Cleaning Fan FAN1
OKB (PCB8)
LCIT (Option)
IOB (PCB11)

Development Motor (Y) M9
Development Motor (M) M10
Development Motor (C) M11
Development Motor (K) M12
Fusing Motor M56
Duplex Exhaust Fan (Rear) FAN18
Duplex Exhaust Fan (Center) FAN17
Duplex Exhaust Fan (Front) FAN16
Development Exhaust Fan (R) FAN14
Development Exhaust Fan (L) FAN15
Heat Pipe Panel Exhaust Fan FAN12
Ozone Exhaust Fan FAN10
Fusing Unit Exhaust Fan FAN8
Drive Motors Exhaust Fan (L) FAN7
PTR/Fusing Exhaust Fan FAN6
Development Roller HP Sensor (Y) (D137/D138) S8
Development Roller HP Sensor (M) (D137/D138) S7
Development Roller HP Sensor (C) (D137/D138) S6
Development Roller HP Sensor (K) (D137/D138) S5
Copy Tray Full Sensor (Option) S4

< Fusing (D137/D138) >
Pressure Roller Exhaust Fan (D137/D138) FAN30
Fusing Belt Smoothing Roller Motor (D137/D138) M55
AC Relay Board (D137/D138) (PCB10)
FDB-M (D137/D138) (PCB9)
Fusing Belt Smoothing Roller Contact Motor (D137/D138) M54

D135/D136 / D137/D138 POINT TO POINT DIAGRAM (2/5)

< ITB Unit >

TDRB
(PCB22)

CN569 — D1365333 — CN696 CN697 CN698 — **M16** PTR Separation Motor

ITB Anti-condensation Heater — **H5** — CN782 — D1365332

ID Sensor — **S97** — CN683 — D1365328

CN262 CN866 CN864 CN362 CN368 CN370

F.G. T116 — T115 F.G. — D1365325

CN752 CN751 CN754 CN755 Drawer CN750 / Drawer CN749

CN212 CN216

IOB

CN165

H.V.P.P. (T1/T2)
(PCB36)

T149 T150 T151 T152 T157

D1365277

T130 T131 T132 T134 T158

T1 Y, T1 M, T1 C, T1 K, T2

T170 T171 — D1385284 (D137/D138) — CN155 CN156 — D1385334 (D137/D138)

H.V.P.P. (T1)
(D137/D138)
(PCB37)

CN1082

T172 — D1385285 — T154

T1 K

< ITB (D137/D138) >

CN740 **S92** ITB Drive Roller Encoder 1

CN741 **S93** ITB Drive Roller Encoder 2

CN742 **M13** ITB Drive Motor

CN743 **S94** ITB Lift Sensor (Y, M, C)

CN745 **S95** ITB Feedback Sensor

CN746 **S96** PTR Separation Sensor

SD Card *Option — CN509

SD Card *Service — CN510

FAN2 Controller Box Intake Fan — CN1050 JCN1050 CN1050 — D1365259 — CN522

IPU — CN573 CN573

CN515 DDR3-DIMM (2GB)

CN516 DDR3-DIMM (512MB)

IC21 FRAM 1

IC20 FRAM 2

Controller Board
(PCB7)

LAN

USB (Device)

USB 2.0

USB 2.0

CN511 — D1365719 (RED) — CN — HDD **(HDD)**

CN526 — D1365718 — CN2 / CN3 — HDD **(HDD)**

CN512 — D1365714 (BLACK) — CN

< EFI Option >

CN503 — Gigabit (Option) — LAN — LAN — Color controller

CN504 — Copy Connector Board *Option — CN — CN — Copy Connector Board (Option)

CN526 — CN

CN505

CN1 IEEE1284 (Option)

CN1 MLB (Option)

CN1 Wireless-LAN (Option)

< Exclusion >

< FAX Option >

CN501 CN526 — GWFCU-IF — CN527 CN560 — FCUIF-D — CN561 CN600 — GWFCU3

CN605 — CN2 JCN CN — Speaker

CN608 — LINE

CN609 — TEL

CN604

CN603

CN661 — FCUIF-D — CN660 — FFC

CN663 CN690 — G3 *Option — CN691 CN692 — TEL

CN662 CN690 — G3 *Option — CN691 CN692 — TEL

D135/D136 / D137/D138 POINT TO POINT DIAGRAM (3/5)

Heating Roller Thermo Pile (Center) S110
Fusing Entrance Sensor S9
Drum Cleaning Motor (Y) M17
Drum Cleaning Motor (M) M18
Drum Cleaning Motor (C) M19
Drum Cleaning Motor (K) M20
Drum Motor (Y) M21
Drum Motor (M) M22
Drum Motor (C) M23
Drum Motor (K) M24
Drum HP Sensor (Y) (D137/D138) S14
Drum Motor Encoder (Y2) S15
Drum Motor Encoder (Y1) S16
Drum HP Sensor (M) (D137/D138) S17
Drum Motor Encoder (M2) S18
Drum Motor Encoder (M1) S19
Drum HP Sensor (C) (D137/D138) S20
Drum Motor Encoder (C2) S21
Drum Motor Encoder (C1) S22
Drum HP Sensor (K) (D137/D138) S23
Drum Motor Encoder (K2) S24
Drum Motor Encoder (K1) S25
Drum Potential Sensor (Y) S30
Drum Potential Sensor (M) S31
Drum Potential Sensor (C) S32
Drum Potential Sensor (K) S33
Drum Potential Sensor Board (PCB38)
IOB
PFB
H.V.P.P. (Y,M) (PCB34)
H.V.P.P. (C,K) (PCB33)
PCU (M)
PCU (Y)
PCU (K)
PCU (C)
Toner Supply Unit
Toner Supply Unit Set Switch 2 (D137/D138)
Toner Supply Unit Set Switch 1 (D137/D138)
PSU-FW (PCB13)
PSU-ECO (PCB12)
IIH Coil Inverter Cooling Fan FAN31
AC Drive Board (PCB14)
AC IN
NA 125V 11500448
250V 11500447
EU/AP 250V 11500446
H2 Paper Bank Heater (Upper)
H3 Paper Bank Heater (Lower)
H4 Anti-condensation Heater (Option)
H1 Scanner Anti-condensation Heater
< Fusing (D137/D138) >
DUB
FDB-D (D137/138) (PCB21)
M58 Web Motor (D137/D138)
S104 Web End Sensor (D137/D138)
S105 Web Unit Sensor (D137/D138)
S106 Web Unit Separation Sensor (D137/D138)
M59 Web Unit Separation Motor (D137/D138)
< Fusing Unit >
S114 Pressure Roller Cam Position Sensor
S113 Pressure Roller Cam Sensor
S112 Fusing Exit Sensor
S111 Pressure Roller Thermo Pile (Center)
ID Chip (Fusing Unit) (D137/D138)
PCB44
Pressure Roller Thermostat
TS2
Pressure Roller Lamp
L6
S107 Heating Roller Roller Position Sensor
S108 Hot Roller Non-contact Sensor
TH5 Hot Roller Thermistor (D137/D138)
TH6 Heating Roller Thermistor (Front)
S109 Fusing Belt Smoothing Roller Separation Sensor (D137/D138)
IH Coil
H6
TS1
Heating Roller Center Thermostat
IH Coil Inverter (PCB17)
< PCDU (Y) >
S26 TD Sensor (Y)
SW5 PCDU Set Switch (Y)
L1 PCL (Y)
Lubricant End Detection (Y):Front
Lubricant End Detection (Y):Rear
< PCDU (M) >
S27 TD Sensor (M)
SW6 PCDU Set Switch (M)
L2 PCL (M)
Lubricant End Detection (M):Front
Lubricant End Detection (M):Rear
< PCDU (C) >
S28 TD Sensor (C)
SW7 PCDU Set Switch (C)
L3 PCL (C)
Lubricant End Detection (C):Front
Lubricant End Detection (C):Rear
< PCDU (K) >
S29 TD Sensor (K)
SW8 PCDU Set Switch (K)
L4 PCL (K)
Lubricant End Detection (K):Front
Lubricant End Detection (K):Rear
PCU Fan (R) FAN19
PCU Fan (L) FAN20
Waste Toner Bottle Motor M25
Waste toner Bottle Set Switch SW9
Waste Toner Bottle Motor Lock Senser S35
Waste Toner Bottle Full Sensor S36
Toner Supply Motor (Y) M60
Development Unit Intake Fan (Y) FAN22
Toner Supply Motor (M) M61
Development Unit Intake Fan (M) FAN23
Toner Supply Motor (C) M62
Development Unit Intake Fan (C) FAN24
Toner Supply Motor (K) M63
Development Unit Intake Fan (K) FAN25
Toner Bottle Motor (Y) M64
Toner Bottle Motor (M) M65
Toner Bottle Motor (C) M66
Toner Bottle Motor (K) M67
TSB (PCB43)
PCB39 Toner Bottle Detection Board (Y)
S100 Toner End Sensor (Y)
PCB40 Toner Bottle Detection Board (M)
S101 Toner End Sensor (M)
PCB41 Toner Bottle Detection Board (C)
S102 Toner End Sensor (C)
PCB42 Toner Bottle Detection Board (K)
S103 Toner End Sensor (K)
ID Chip (Y) (OT4) Toner Bottle (Y)
ID Chip (M) (OT5) Toner Bottle (M)
ID Chip (C) (OT6) Toner Bottle (C)
ID Chip (K) (OT7) Toner Bottle (K)
< Toner Supply Unit >
SW25 Toner Supply Unit Cover Switch
FAN27 ITB Cleaning Fan
S99 ITB Cleaning Unit Set Sensor

D135/D136 / D137/D138 POINT TO POINT DIAGRAM (4/5)

< By-pass (D137/D138Pro) >

By-pass Table Limit Sensor (D137/D138) S63 CN816
Ba-pass Feed Sensor S64 CN838
By-pass Tray Set Switch (D137/D138) SW26 CN817
By-pass Pick-up Solenoid SOL7 CN840
By-pass Tray Lift Motor (D137/D138) M26 CN848 JCN849 CN848
By-pass Tray Lower Limit Sensor (D137/D138) S10 CN854
By-pass Paper Size Sensor S11 CN843
By-pass Paper Length Sensor S12 CN842
By-pass Paper End Sensor S13 CN839
F.G. T125
F.G. T126
D1365344 (D137/D138)
D1365345 (D137/D138)
CN841 JCN841 CN841
CN1030 JCN1030 CN1030
CN1047
11
Page1/5 J5
D1365205
CN260

< By-pass (D135/D136) >

By-pass Paper End Sensor S13 CN839
Ba-pass Feed Sensor S64 CN838
By-pass Pick-up Solenoid SOL7 CN840
By-pass Paper Size Sensor S11 CN843
By-pass Paper Length Sensor S12 CN842
D1365344 (D135/D136)
D1365345 (D135/D136)
CN841 JCN841 CN841
CN1030 JCN1030 CN1030
CN1047
11
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Main Relay Motor M41 CN830
By-pass Paper Feed Motor M27 CN1031
1st Tray Papar Feed Motor M32 CN820
1st Tray Transport Motor M33 CN821
CN261
CN266

1st Tray Limit Sensor S47 CN847
1st Tray Paper End Sensor S48 CN846
1st Tray Transport Sensor S49 CN845
1st Tray Papar Feed Sensor S50 CN844
1st Tray Pick-up Solenoid SOL3 CN848 JCN848 CN848
D1365346
CN1033 JCN1033 CN1033
Page3/5 D8 17
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CN279

< D135/D136>
12
Page1/5 J11
CN272

Page1/5 J11 12
Decurl Unit (Option for D137/D138)
CN1132 CN1132 CN1134 CN1133
D1385235 (D137/D138)
D1385234 (D137/D138)
CN1135 JCN1135 CN1135
Page3/5 A8 22
43 Page3/5 C8
< Option (D137/D138) >

Key Counter (Option) CN878
D1365206
CN277
Page1/5 G4 40
Key Card (Option) CN1
MKB (Option) CN1 CN977

PFB (PCB18) 1/2

CN263 CN264 D1365225
N.C. CN822
M35 Vertical Transport Motor CN823
M36 2nd Tray Paper Feed Motor CN824
M37 2nd Tray Transport Motor CN825
M38 3rd Tray Paper Feed Motor CN826
M39 3rd Tray Transport Motor CN827
CN267 D1365201
S98 ITB Temperature/Humidity Sensor CN890
CN1034 JCN1034 CN1034 D1365347
N.C. CN848 JCN848 CN848
N.C. CN844
S53 Vertical Transport Sensor CN845
N.C. CN846
N.C. CN847
CN788 JCN788 CN788
LED11 1st Tray LED (D137/D138) CN1036
N.C. CN1037
LED13 2nd Tray LED (D137/D138) CN1038
LED14 3rd Tray LED (D137/D138) CN1039
LED3 Vertical Transport Cover LED CN1040
D1385230 (Pro)
D1365231 (MP) / D1385230 (Pro)
CN268
SW24 Lower Right Cover Switch CN877
SW22 Lower Right Cover Set Switch T112
SW21 Drawer Unit Set Switch 2 T111
SW20 Drawer Unit Set Switch 1 T110
CN789 JCN789 CN789
Page3/5 D8 9
10 Page3/5 D8
CN836 JCN836 CN836
D1365346
SOL5 2nd Tray Pick-up Solenoid CN848 JCN848 CN848
S58 2nd Tray Paper Feed Sensor CN844
S57 2nd Tray Transport Sensor CN845
S56 2nd Tray Paper End Sensor CN846
S55 2nd Tray Pick-up Roller Lift Sensor CN847
CN1035 JCN1035 CN1035
SOL6 3rd Tray Pick-up Solenoid CN848 JCN848 CN848
S62 3rd Tray Paper Feed Sensor CN844
S61 3rd Tray Transport Sensor CN845
S60 3rd Tray Paper End Sensor CN846
S59 3rd Tray Pick-up Roller Lift Sensor CN847

Duplex Inverter Motor M49 CN886
N.C. CN833
2nd Tray Size Switch SW18 CN857
1st Tray Lift Motor M28 CN834
Page1/5 I4 1 CN884
Left Tray Lock Solenoid (1st Tray) SOL2 CN866 JCN866 CN866
Tandem Tray Rear Fence Motor M40 CN869
3rd Tray Size Switch SW19 CN858
Lower Limit Sensor S46 CN850
Paper Height Sensor 1 S43 CN851
Paper Height Sensor 2 S44 CN852
Paper Height Sensor 3 S45 CN853
1st Tray Set Switch SW16 CN855
N.C. CN831
Purge Lower Guide Plate LED LED5 CN1049
Purged Paper Sensor S42 CN883
Lower Left Cover LED LED2 CN880
Purge Upper Guide Plate LED LED4 CN881
Front Lower cover Switch SW23 CN871
LSB PCB19 CN885
D1365342 CN873 JCN873 CN873
D1365255 CN829 JCN829 CN829
D1365393 CN882 JCN882 CN882
D1365227
D1365353 CN868 JCN868
CN282 CN285 CN269 CN270 CN271
N.C. CN832
2nd Tray Lift Motor M30 CN835
3rd Tray Lift Motor M31 CN837
2nd Tray Set Switch SW14 CN856
3rd Tray Set Switch SW15 CN859
Rear Side Fence Close Sensor S41 CN861
D1365343 CN874 JCN874 CN874
Rear Side Fence Solenoid SOL1 CN875 JCN875 CN875
CN1093 JCN1093 CN1093
Rear Fence HP Sensor S40 CN863
Rear Fence Return Sensor S39 CN864
Left Tray Paper Sensor S38 CN865
D1365340 Drawer
CN1093 JCN1093 CN1093

PFB (PCB18) 2/2

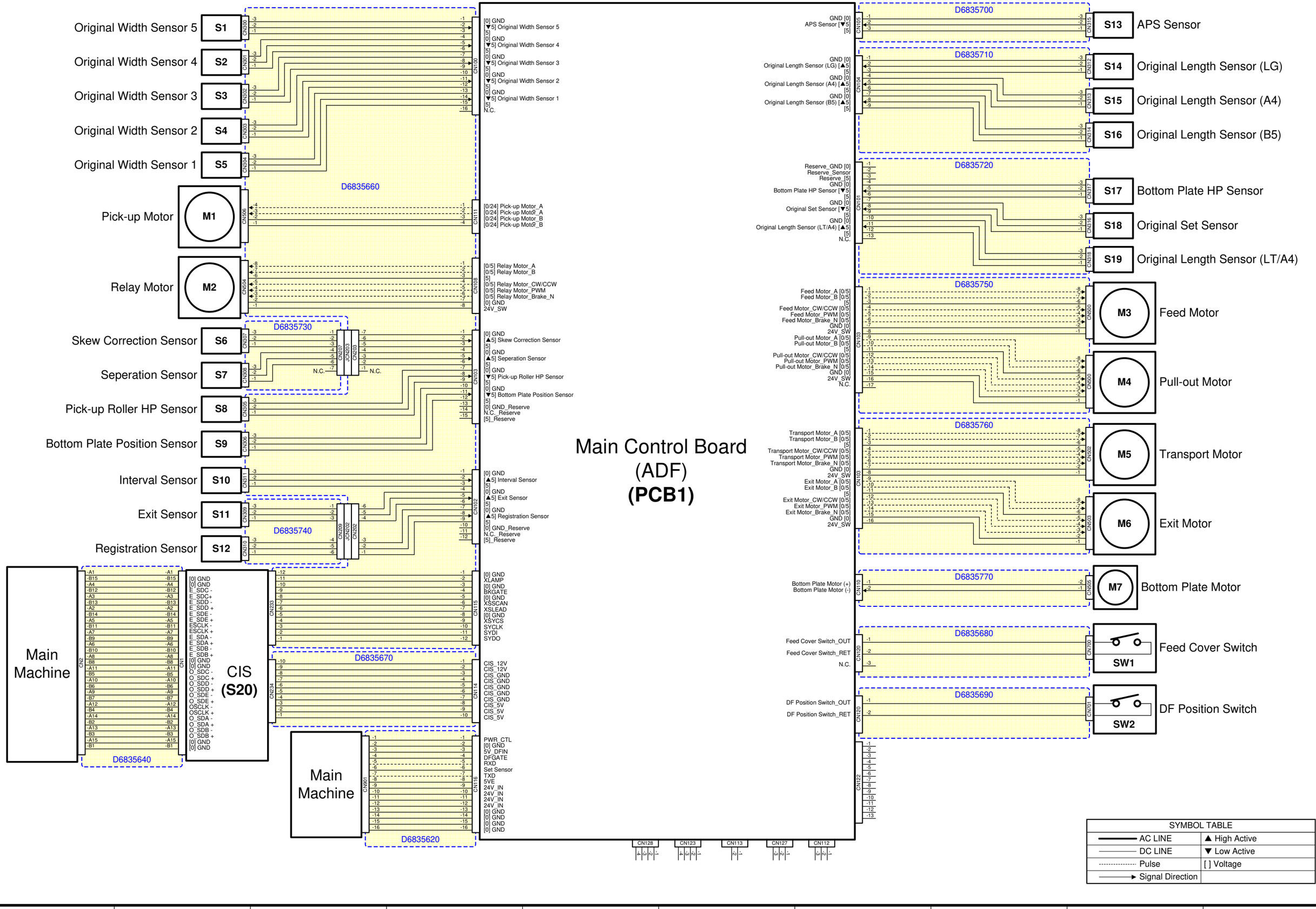
< Drawer Unit >

Shift Sensor Motor M42 CN821 JCN821 CN821
Shift Roller Motor 2 M43 CN823 JCN823 CN823
Shift Roller Motor 1 M44 CN807 JCN807 CN807
Heat Pipe Roller Cooling Fan FAN13 CN801 JCN801 CN801
IH Coil Cooling Fan FAN21 CN802 JCN802 CN802
Pressure Roller Intake Fan (D137/D138) FAN9 CN803 JCN803 CN803
Inverter Duplex Solenoid SOL8 CN804 JCN804 CN804
D1365307
CN295
Inverter Exit Solenoid SOL9 CN805 JCN805 CN805
Inverter Entrance Junction Gate Motor M48 CN806 JCN806 CN806
CN1059 JCN1059 CN1059
D1365315
PTB Paper Sensor S65 CN806
PTB Unit Set Sensor S66 CN1081
PTB Fan (Rear) FAN29 CN1089 JCN1089 CN1089
PTB Fan (Front) FAN28 CN1090 JCN1090 CN1090
CN800 JCN800 CN800
D1365313
CN303 CN297
Duplex Exit Sensor S67 CN825
Duplex Transport Sensor 4 S71 CN904
Duplex Transport Sensor 3 S70 CN903
Duplex Transport Sensor 2 S69 CN902
Duplex Transport Sensor 1 S68 CN901
Duplex Entrance Sensor S72 CN911
Drawer Unit Look Sensor S73 CN1082
Paper Edge Sensor S74 CN1044
D1365321 CN836 JCN836 CN836
D1365308
CN304
D 148 D1365276 T147 H.V.P.P. (D) (PCB35) CN840
Inverter Exit Motor M45 CN826
CN301 CN300
CN275 CN274 CN276 CN273
36 CN1070
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CN1068 JCN1068 CN1068
D1365319
CN290 CN291 CN292 CN293 CN295 CN294
8(D135/D136) 45(D137/D138) Page4/5 H5
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4 Page3/5 D8
CN967
CN951 CN952 CN953 CN954 CN961 CN962 CN963 CN964 CN956 CN957 CN958 CN959
Drawer CN950 Drawer CN960 Drawer CN955
D1365305
D1365306
D1365203
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CN1048 S37 Drawer Unit Set Sensor

DUB (PCB20)

CN298 CN299 CN302 CN305 CN307 CN308
D1365389
M46 Paper Exit Motor CN827
M47 Inverter Entrance Motor CN925
M50 Duplex Exit Motor CN922
M51 Duplex Transport Motor CN928
M52 Registration Motor CN1041
M53 Drawer Unit Lock Motor CN1094 JCN1094 CN1094
CN1072 CN1073 Drawer CN CN1075 CN1076
D1365384
LED15 Drawer Unit LED CN808
S75 Drawer Unit Lever Sensor CN1091
D1365385
LED6 Registration Guid Plate LED CN938
LED7 Inverter Guid Plate LED CN808
LED8 Exit Guid Plate LED CN918
S76 Shift Roller HP Sensor 2 CN934
S77 Shift Sensor HP Sensor CN931
D1365386
S78 Shift Roller HP Sensor 1 CN905
D1365390
LED9 Fusing Guid Plate LED CN800
SW27 Transport Guid Plate Switch CN1086
D1365320
SW30 Registration Upper Guide Plate Switch CN1083
D1365311
S79 Registration Sensor CN1072
D1365310
S80 By-pass Thick Paper sensor CN1114
D1365312
S81 Main Relay Sensor CN869
S82 Main Relay Thickness Sensor CN118
D1365324
S83 Invert/Duplex Sensor CN818
S84 Purged Paper Sensor CN883
S85 Fusin Exid Guid Plate Sensor CN1084
D1365314
LED10 Exid Upper Guid Plate LED CN918
S86 Paper Exit Relay Sensor CN1062
S87 Paper Exit Sensor (Option) CN1066
T120 F.G. T121 F.G.
D1365316
S88 Paper Exit Inverter Sensor CN1065
S89 Inverter Exit Sensor CN1063
S90 Inverter Entrance Junction Gate HP Sensor CN1067
SW28 Exit Guid Plate Switch (Upper) CN1088
SW29 Exit Guid Plate Switch (Left) CN1087
Inverter Entrance Sensor S91 CN1064
D1365317
T122 F.G. T123 F.G.

D135/D136 / D137/D138 POINT TO POINT DIAGRAM (5/5) ADF



BCU Pin Assign Information

Connector (FROM)		Signal Information				Connector (TO)		
No	Pin No	Signal Name	Direction	L	H	No	To Connector	Pin No
CN100	1	FB_FFC_IPU	I			CN574	IPU	50
	2	GND	G					49
	3	IPU_A(18)	O					48
	4	IPU_A(17)	O					47
	5	IPU_A(16)	O					46
	6	IPU_A(15)	O					45
	7	IPU_A(14)	O					44
	8	IPU_A(13)	O					43
	9	IPU_A(12)	O					42
	10	IPU_A(11)	O					41
	11	IPU_A(10)	O					40
	12	GND	G					39
	13	IPU_A(9)	O					38
	14	IPU_A(8)	O					37
	15	IPU_A(7)	O					36
	16	IPU_A(6)	O					35
	17	IPU_A(5)	O					34
	18	IPU_A(4)	O					33
	19	IPU_A(3)	O					32
	20	IPU_A(2)	O					31
	21	IPU_A(1)	O					30
	22	GND	G					29
	23	IPU_D(31)	I/O					28
	24	IPU_D(30)	I/O					27
	25	IPU_D(29)	I/O					26
	26	IPU_D(28)	I/O					25
	27	IPU_D(27)	I/O					24
	28	IPU_D(26)	I/O					23
	29	IPU_D(25)	I/O					22
	30	IPU_D(24)	I/O					21
	31	GND	G					20
	32	IPU_D(23)	I/O					19
	33	IPU_D(22)	I/O					18
	34	IPU_D(21)	I/O					17
	35	IPU_D(20)	I/O					16
	36	IPU_D(19)	I/O					15
	37	IPU_D(18)	I/O					14
	38	IPU_D(17)	I/O					13
	39	IPU_D(16)	I/O					12
	40	GND	G					11
	41	IPU4_CS_N	O					10
	42	IPU3_CS_N	O					9
	43	IPU2_CS_N	O					8
	44	IPU1_CS_N	O					7
	45	IPU0_CS_N	O					6
	46	IPU_WS_N	O					5
	47	IPU_RD_N	O					4
	48	IPU_RD_WR_N	O					3
	49	GND	G					2
	50	FFC_IPU	O					1
CN101	1	GND	G			CN595	IPU	22
	2	5V	P					21
	3	G1_SYDO	O					20
	4	G1_SYDI	I					19
	5	G1_SYCLK	O					18
	6	G1_SYHS	N					17
	7	G1_SYCS0_N	O					16
	8	G1_SYCS1_N	N					15
	9	G2_SYDO	O					14
	10	G2_SYDI	I					13
	11	M2P_RST_N	O					12
	12	S2M_RST_N	O					11
	13	G2_SYCLK	O					10
	14	G2_SYCS0_N	O					9
	15	ADF_TXD	O					8
	16	ADF_RXD	I					7
	17	IPU_INT_N	I					6
	18	TIMER_UP_N0	I					5
	19	TIMER_UP_N1	I					4
	20	ENGENABLE_N	I					3
	21	FUKKI	I					2
	22	IPU_WAKE	I					1
CN103	1	FFC_IOB	O			CN212	IOB	50
	2	IOB_WS_N	O					49
	3	IOB_RD_N	O					48
	4	IOB_RD_WR_N	O					47
	5	IOB1_CS_N	O					46
	6	IOB2_CS_N	O					45
	7	IOB3_CS_N	O					44
	8	GND	G					43
	9	IOB_D(24)	I/O					42
	10	IOB_D(25)	I/O					41
	11	IOB_D(26)	I/O					40
	12	IOB_D(27)	I/O					39
	13	IOB_D(28)	I/O					38
	14	IOB_D(29)	I/O					37
	15	IOB_D(30)	I/O					36
	16	IOB_D(31)	I/O					35
	17	GND	G					34
	18	IOB_A(0)	O					33
	19	IOB_A(1)	O					32
	20	IOB_A(2)	O					31
	21	IOB_A(3)	O					30
	22	IOB_A(4)	O					29
	23	IOB_A(5)	O					28
	24	IOB_A(6)	O					27
	25	IOB_A(7)	O					26
	26	GND	G					25
	27	IOB_A(8)	O					24
	28	IOB_A(9)	O					23
	29	IOB_A(10)	O					22
	30	IOB_A(11)	O					21
	31	IOB_A(12)	O					20
	32	IOB_A(13)	O					19
	33	IOB_A(14)	O					18
	34	IOB_A(15)	O					17
	35	IOB_A(16)	O					16
	36	IOB_A(17)	O					15
	37	IOB_A(18)	O					14
	38	IOB_A(19)	O					13
	39	IOB_A(20)	O					12
	40	IOB1_INT	I					11
	41	IOB2_INT	I					10
	42	IOB3_INT	I					9
	43	IOB_WAKE	I					8
	44	PON_RST_P	O					7
	45	GND	G					6
	46	HST_SCL	O					5
	47	HST_SDA	B					4
	48	TAG_SCL	O					3
	49	TAG_SDA	B					2
	50	FB_FFC_IOB	I					1
CN105	1	N.C.	N			CN883	ID Sensor	
	2	N.C.	N					
	3	TIBTPSNL_F	I					1
	4	N.C.	N					
	5	TIBTPSNV_F	I					2
	6	N.C.	N					
	7	N.C.	N					
	8	TIBTPSNL_C	I					4
	9	TIBTPSNV_C2	I					3
	10	TIBTPSNV_C	I					6
	11	3.3V	P					5
	12	GND	G					9
	13	TIBTPSNL_R	I					8
	14	N.C.	N					
	15	TIBTPSNV_R	I					7

PFB Pin Assign Information

Connector (FROM)		Signal Information				Connector (TO)		
No	Pin No	Signal Name	Direction	L	H	No	To Connector	Pin No
CN260	1	HHDPUSL	O	Off	On	CN840	By-pass Pick-up Solenoid	2
	2	+24VS	P					1
	3	GND	G			CN816	By-pass Table Limit Sensor (D137/D138 only)	3
	4	HHD_ULSN	I	Not Limit	Limit			2
	5	+5V	P					1
	6	GND	G			CN838	By-pass Feed Sensor	3
	7	HHDFDSN_N	I	Paper	No Paper			2
	8	+5V	P					1
	9	HHDSTSW	I	Set	Not Set	CN817	By-pass Tray Set Switch (D137/D138 only)	2
	10	GND	G					1
	11	PPCTMSN_AN	I			CN891	PCU Temperature/Humidity Sensor (K)	4
	12	GND	G					3
	13	PPCWTSN_AN	I					2
	14	+3.3V	P					1
	15	HHDOCSN	I	Close	Open	CN878	Upper Right Cover Switch	2
	16	GND	G					1
	17	MBD_LE	O	Off	On	CN1032	By-pass Cover LED	2
	18	+5V	P					1
	19	HHDUPMT_B	O			CN849	By-pass Tray Lift Motor (D137/D138 only)	2
	20	HHDUPMT_A	O					1
	21	GND	G			CN854	By-pass Tray Lower Limit Sensor (D137/D138 only)	3
	22	HHD_DNSN	I	Not Limit	Limit			2
	23	+5V	P					1
	24	HHDMLSN_CN2	I			CN843	By-pass Paper Size Sensor	7
	25	HHDMLSN_CN1	I					6
	26	GND	G					5
	27	GND	G					4
	28	HHDMLSN_CN4	I					3
	29	HHDMLSN_CN5	I					2
	30	HHDMLSN_CN3	I					1
	31	GND	G			CN842	By-pass Paper Length Sensor	3
	32	HHDSLSN	I	Long Size	Short Size			2
	33	+5V	P					1
	34	GND	G			CN839	By-pass Paper End Sensor	3
	35	HHDPESN	I	Paper	No Paper			2
	36	+5V	P					1
CN261	A1	MHDCVMT_EC_A_I	I			CN830	Main Relay Motor	8
	A2	MHDCVMT_EC_B_I	I					7
	A3	+5V	P					6
	A4	MHDCVMT_CW_O	O	CW	CCW			5
	A5	MHDCVMT_PWM_O	O					4
	A6	MHDCVMT_BRK_O	O	Brake Off	Brake On			3
	A7	GND	G					2
	A8	+24VS	P					1
	A9	HHDFDMT_EC_A_I	I			CN1031	By-pass Paper Feed Motor	8
	A10	HHDFDMT_EC_B_I	I					7
	A11	+5V	P					6
	A12	HHDFDMT_CW_O	O	CW	CCW			5
	A13	HHDFDMT_PWM_O	O					4
	A14	HHDFDMT_BRK_O	O	Brake Off	Brake On			3
	A15	GND	G					2
	A16	+24VS	P					1
	B1	CF1_MT_EC_A_I	I			CN820	1st Tray Papar Feed Motor	8
	B2	CF1_MT_EC_B_I	I					7
	B3	+5V	P					6
	B4	CF1_MT_CW_O	O	CW	CCW			5
	B5	CF1_MT_PWM_O	O					4
	B6	CF1_MT_BRK_O	O	Brake Off	Brake On			3
	B7	GND	G					2
	B8	+24VS	P					1
	B9	CH1_MT_EC_A_I	I			CN821	1st Tray Transport Motor	8
	B10	CH1_MT_EC_B_I	I					7
	B11	+5V	P					6
	B12	CH1_MT_EC_CW_O	O	CW	CCW			5
	B13	CH1_MT_EC_PWM_O	O					4
	B14	CH1_MT_EC_BRK_O	O	Brake Off	Brake On			3
	B15	GND	G					2
	B16	+24VS	P					1
CN262	1	RDPRVMT_EC_A_I	I			CN886	Duplex Inverter Motor	8
	2	RDPRVMT_EC_B_I	I					7
	3	+5V	P					6
	4	RDPRVMT_CW_O	O	CW	CCW			5
	5	RDPRVMT_PWM_O	O					4
	6	RDPRVMT_BRK_O	O	Brake Off	Brake On			3
	7	GND	G					2
	8	+24VS	P					1
CN263	1	N.C.	N					
	2	N.C.	N					
	3	N.C.	N					
	4	N.C.	N					
	5	N.C.	N					
	6	N.C.	N					
	7	N.C.	N					
	8	N.C.	N					
	9	CH2_MT_EC_A_I	I			CN823	Vertical Transport Motor	8
	10	CH2_MT_EC_B_I	I					7
	11	+5V	P					6
	12	CH2_MT_CW_O	O	CW	CCW			5
	13	CH2_MT_PWM_O	O					4
	14	CH2_MT_BRK_O	O	Brake Off	Brake On			3
	15	GND	G					2
	16	+24VS	P					1
CN264	A1	CF3_MT_EC_A_I	I			CN824	2nd Tray Paper Feed Motor	8
	A2	CF3_MT_EC_B_I	I					7
	A3	+5V	P					6
	A4	CF3_MT_CW_O	O	CW	CCW			5
	A5	CF3_MT_PWM_O	O					4
	A6	CF3_MT_BRK_O	O	Brake Off	Brake On			3
	A7	GND	G					2
	A8	+24VS	P					1
	A9	CH3_MT_EC_A_I	I			CN825	2nd Tray Transport Motor	8
	A10	CH3_MT_EC_B_I	I					7
	A11	+5V	P					6
	A12	CH3_MT_CW_O	O	CW	CCW			5
	A13	CH3_MT_PWM_O	O					4
	A14	CH3_MT_BRK_O	O	Brake Off	Brake On			3
	A15	GND	G					2
	A16	+24VS	P					1
	A17	N.C.	N					
	B1	CF4_MT_EC_A_I	I			CN826	3rd Tray Paper Feed Motor	8
	B2	CF4_MT_EC_B_I	I					7
	B3	+5V	P					6
	B4	CF4_MT_CW_O	O	CW	CCW			5
	B5	CF4_MT_PWM_O	O					4
	B6	CF4_MT_BRK_O	O	Brake Off	Brake On			3
	B7	GND	G					2
	B8	+24VS	P					1
	B9	CH4_MT_EC_A_I	I			CN827	3rd Tray Transport Motor	8
	B10	CH4_MT_EC_B_I	I					7
	B11	+5V	P					6
	B12	CH4_MT_CW_O	O	CW	CCW			5
	B13	CH4_MT_PWM_O	O					4
	B14	CH4_MT_BRK_O	O	Brake Off	Brake On			3
	B15	GND	G					2
	B16	+24VS	P					1
	B17	N.C.	N					

PFB Pin Assign Information

Connector (FROM)		Signal Information				Connector (TO)		
No	Pin No	Signal Name	Direction	L	H	No	To Connector	Pin No
CN265	1	N.C.	N					
	2	N.C.	N					
	3	N.C.	N					
	4	N.C.	G					
	5	N.C.	N					
	6	CT3SZSW1	I			CN857	2nd Tray Size Switch	5
	7	CT3SZSW2	I					4
	8	CT3SZSW3	I					3
	9	GND	G					2
	10	CT3SZSW4	I					1
	11	CT1UPMT_A	O			CN834	1st Tray Lift Motor	2
	12	CT1UPMT_B	O					1
	13	GND	G			CN1136	Copy Tray Full Sensor	3
	14	EEXFLSN_N	I	Not Full	Full			2
	15	+5V	P					1
	16	+24V	P			CN868	Left Tray Lock Solenoid (1st Tray)	2
	17	CLTLKSL0	O	Off	On			1
	18	CTTMVMT_B	O			CN869	Tandem Tray Rear Fence Motor	2
	19	CTTMVMT_A	O					1
	20	CT4SZSW1	I			CN858	3rd Tray Size Switch	5
	21	CT4SZSW2	I					4
	22	CT4SZSW3	I					3
	23	GND	G					2
	24	CT4SZSW4	I					1
CN266	1	+24VS	P			CN848	1st Tray Pick-up Solenoid	2
	2	CT1PUSL1	O	Off	On			1
	3	GND	G			CN844	1st Tray Paper Feed Sensor	3
	4	CF1_SN_N	I	Paper	No Paper			2
	5	+5V	P					1
	6	GND	G			CN845	1st Tray Transport Sensor	3
	7	CH1_SN_N	I	Paper	No Paper			2
	8	+5V	P					1
	9	GND	G			CN846	1st Tray Paper End Sensor	3
	10	CT1EDSN	I	No Paper	Paper			2
	11	+5V	P					1
	12	GND	G			CN847	1st Tray Limit Sensor	3
	13	CF1PRSN	I	Not Limit	Limit			2
	14	+5V	P					1
CN267	1	N.C.	N					
	2	N.C.	N					
	3	N.C.	N					
	4	N.C.	N					
	5	N.C.	N					
	6	GND	G			CN845	Vertical Transport Sensor	3
	7	CH2_SN_N	I	Paper	No Paper			2
	8	+5V	P					1
	9	N.C.	N					
	10	N.C.	N					
	11	N.C.	N					
	12	N.C.	N					
	13	N.C.	N					
	14	N.C.	N					
	15	CFTSTLE1	O	Off	On	CN1036	1st Tray LED (D137/D138 only)	2
	16	+5V	P					1
	17	N.C.	N					
	18	N.C.	N					
	19	CFTSTLE3	O	Off	On	CN1038	2nd Tray LED (D137/D138 only)	2
	20	+5V	P					1
	21	CFTSTLE4	O	Off	On	CN1039	3rd Tray LED (D137/D138 only)	2
	22	+5V	P					1
	23	MVD_LE	O	Off	On	CN1040	Vertical Transport Cover LED	2
	24	+5V	P					1
	25	TTITMSN_AN	I			CN890	ITB Temperature/Humidity Sensor	3
	26	GND	G					2
	27	TTIWTSN_AN	I					1
	28	+3.3V	P					
CN268	1	+24VS	P			CN848	2nd Tray Pick-up Solenoid	2
	2	CT3PUSL1	O	Off	On			1
	3	GND	G			CN844	2nd Tray Paper Feed Sensor	3
	4	CF3_SN_N	I	Paper	No Paper			2
	5	+5V	P					1
	6	GND	G			CN845	2nd Tray Transport Sensor	3
	7	CH3_SN_N	I	Paper	No Paper			2
	8	+5V	P					1
	9	GND	G			CN846	2nd Tray Paper End Sensor	3
	10	CT3EDSN	I	No Paper	Paper			2
	11	+5V	P					1
	12	GND	G			CN847	2nd Tray Limit Sensor	3
	13	CF3PRSN	I	Not Limit	Limit			2
	14	+5V	P					1
	15	N.C.	N					
	16	N.C.	N					
	17	+24VS	P			CN848	3rd Tray Pick-up Solenoid	2
	18	CT4PUSL1	O	Off	On			1
	19	GND	G			CN844	3rd Tray Paper Feed Sensor	3
	20	CF4_SN_N	I	Paper	No Paper			2
	21	+5V	P					1
	22	GND	G			CN845	3rd Tray Transport Sensor	3
	23	CH4_SN_N	I	Paper	No Paper			2
	24	+5V	P					1
	25	GND	G			CN846	3rd Tray Paper End Sensor	3
	26	CT4EDSN	I	No Paper	Paper			2
	27	+5V	P					1
	28	GND	G			CN847	3rd Tray Limit Sensor	3
	29	CF4PRSN	I	Not Limit	Limit			2
	30	+5V	P					1
	31	CTHOCSN	I	Close	Open	CN877	Lower Right Cover Switch	2
	32	GND	G					1
CN269	1	GND	G			CN850	Lower Limit Sensor	3
	2	CTYLLSN	I	Not Limit	Limit			2
	3	+5V	P					1
	4	GND	G			CN851	Paper Height Sensor 1	3
	5	CBKROSN1	I	No Paper	Paper			2
	6	+5V	P					1
	7	GND	G			CN852	Paper Height Sensor 2	3
	8	CBKROSN2	I	No Paper	Paper			2
	9	+5V	P					1
	10	GND	G			CN853	Paper Height Sensor 3	3
	11	CBKROSN3	I	No Paper	Paper			2
	12	+5V	P					1
	13	CRTSTSNF1	I	Set	Not Set	CN855	1st Tray Set Switch	2
	14	GND	G					1
	15	N.C.	N					
	16	N.C.	N					
	17	+5V	P			CN1049	Purge Lower Guide Plate LED	2
	18	CPS_LEDW	O	Off	On			1
	19	+5V	P			CN883	Purged Paper Sensor	3
	20	GND	G					2
	21	CPGPOSN_N	I	No Paper	Paper			1
	22	+5V	P			CN880	Lower Left Cover LED	2
	23	MLD_LE	O	Off	On			1
	24	+5V	P			CN881	Purge Upper Guide Plate LED	2
	25	CPS_LEUP	O	Off	On			1
	26	+5V	P			CN871	Front Lower Cover Switch	2
	27	CPCOCSN	I	Close	Open			1
	28	GND	G			CN885	LSB	7
	29	EEXCVLSRT_SW	I	On	Off			6
	30	GND	G					5
	31	EEXCVLSLT_SW	I	On	Off			4
	32	EEXCVLSLT_LE	O	Off	On			3
	33	EEXCVLSRT_LE	O	Off	On			2
	34	+5V	P					1

PFB Pin Assign Information

Connector (FROM)		Signal Information				Connector (TO)		
No	Pin No	Signal Name	Direction	L	H	No	To Connector	Pin No
CN270	1	N.C.	N					
	2	N.C.	N					
	3	N.C.	N					
	4	N.C.	N					
	5	N.C.	N					
	6	CT3SZSN2	I			CN835	2nd Tray Lift Motor	5
	7	GND	G					4
	8	CT3SZSN1	I					3
	9	CT3UPMT_B	O					2
	10	CT3UPMT_A	O					1
	11	CT4SZSN2	I			CN837	3rd Tray Lift Motor	5
	12	GND	G					4
	13	CT4SZSN1	I					3
	14	CT4UPMT_B	O					2
	15	CT4UPMT_A	O					1
	16	N.C.	N					
	17	N.C.	N					
	18	N.C.	N					
	19	GND	G			CN1046	Drawer Unit Set Sensor	3
	20	EEXSTSN	I	Not Set	Set			2
	21	+5V	P					1
	22	CT3STSN	I	Set	Not Set	CN856	2nd Tray Set Switch	2
	23	GND	G					1
	24	CT4STSN	I	Set	Not Set	CN859	3rd Tray Set Switch	2
	25	GND	G					1
	26	GND	G			CN861	Rear Side Fence Close Sensor	3
	27	CRECSSN	I	Open	Close			2
	28	+5V	P					1
	29	+24V	P			CN875	Rear Side Fence Solenoid	2
	30	CRE_SL	O	Off	On			1
CN271	1	CTTSTSN_I	I			CN862	Left Tray Set Switch	2
	2	GND	G					1
	3	GND	G			CN863	Rear Fence HP Sensor	3
	4	CMVHPSN_N_I	I	Not HP	HP			2
	5	+5V	P					1
	6	GND	G			CN864	Rear Fence Return Sensor	3
	7	CMVPOSN_N_I	I	Not Contact	Contact			2
	8	+5V	P					1
	9	GND	G			CN865	Left Tray Paper Sensor	3
	10	CLTPASN_N_I	I	Paper	No Paper			2
	11	+5V	P					1
	12	CFT_SSA3_I	I				A3 Tray Set Switch	2
	13	GND	G					1
CN272	1	BDCCVMT_CLK	O			CN1132	Decurl Unit (D137/D138 only)	20
	2	BDCCVMT_FR	O	CCW	CW			19
	3	BDCCVMT_ENB	O	Disable	Enable			18
	4	BDCCVMT_RST	O	Reset Off	Reset On			17
	5	BDCCVMT_CRT	O	Ready	Normal			16
	6	BDCADMT_CLK	O					15
	7	BDCADMT_FR	O	CCW	CW			14
	8	BDCADMT_ENB	O	Disable	Enable			13
	9	N.C.	N					12
	10	N.C.	N					11
	11	BDCINSN	I	Paper	No Paper			10
	12	BDCOUSN	I	Paper	No Paper			9
	13	BDCHPSN	I	HP	Not HP			8
	14	BDCSTSN	I	Set	Not Set			7
	15	BDCOCSN	I	Close	Open			6
	16	BDC_SS	I	Set	Not Set			5
	17	BDCPSSN	I	Lower Curl	Upper Curl			4
	18	BDCCLFN_TRG	O	Off	On			3
	19	BDCCLFN_LOCK	I	Not Lock	Lock			2
	20	BDC_LE	O	Off	On			1
CN273	A1	DRWSTSN	I			CN294	DUB	20
	A2	EEXRVMT_BRK	O	Brake Off	Brake On			19
	A3	EEXRVMT_PWM	O					18
	A4	EEXRVMT_CW	O	CW	CCW			17
	A5	EEXRVMT_EN_B	I					16
	A6	EEXRVMT_EN_A	I					15
	A7	RRVINMT_BRK	O	Brake Off	Brake On			14
	A8	RRVINMT_PWM	O					13
	A9	RRVINMT_CW	O	CW	CCW			12
	A10	RRVINMT_EN_B	I					11
	A11	RRVINMT_EN_A	I					10
	A12	EEX_MT_BRK	O	Brake Off	Brake On			9
	A13	EEX_MT_PWM	O					8
	A14	EEX_MT_CW	O	CW	CCW			7
	A15	EEX_MT_EC_B	I					6
	A16	EEX_MT_EC_A	I					5
	B1	CCTPASN_N	I	Paper	No Paper			40
	B2	RDPOUMT_BRK	O	Brake Off	Brake On			39
	B3	RDPOUMT_PWM	O					38
	B4	RDPOUMT_CW	O	CW	CCW			37
	B5	RDPOUMT_EC_B	I					36
	B6	RDPOUMT_EC_A	I					35
	B7	RDPCVMT_BRK	O	Brake Off	Brake On			34
	B8	RDPCVMT_PWM	O					33
	B9	RDPCVMT_CW	O	CW	CCW			32
	B10	RDPCVMT_EC_B	I					31
	B11	RDPCVMT_EC_A	I					30
	B12	CRG_MT_BRK	O	Brake Off	Brake On			29
	B13	CRG_MT_PWM	O					28
	B14	CRG_MT_CW	O	CW	CCW			27
	B15	CRG_MT_EC_B	I					26
	B16	CRG_MT_EC_A	I					25
CN274	A1	GND	G			CN293	DUB	A1
	A2	CSR_MT1_CLK	O					A2
	A3	CSR_MT1_FR	O	CCW	CW			A3
	A4	CSR_MT1_ENB	O	Disable	Enable			A4
	A5	CSR_MT1_CRT	O	Ready	Normal			A5
	A6	CSR_MT2_CLK	O					A6
	A7	CSR_MT2_FR	O	CCW	CW			A7
	A8	CSR_MT2_ENB	O	Disable	Enable			A8
	A9	CSR_MT2_CRT	O	Ready	Normal			A9
	A10	RDPRVSL0	O	Off	On			A10
	A11	EEXFLVSL	O	Off	On			A11
	-	N.C.	N					A12
	-	N.C.	N					A13
	B1	RRVDVMT_CLK	O					B1
	B2	RRVDVMT_FR	O	CCW	CW			B2
	B3	RRVDVMT_ENB	O	Disable	Enable			B3
	B4	RRVDVMT_CRT	O	200 mA	300 mA			B4
	B5	RDPSHMT_CLK	O					B5
	B6	RDPSHMT_FR	O	CCW	CW			B6
	B7	RDPSHMT_ENB	O	Disable	Enable			B7
	B8	RDPSHMT_CRT	O	Ready	Normal			B8
	B9	FWBCEMT_CLK	O					B9
	B10	FWBCEMT_FR	O	CW	CCW			B10
	B11	FWBCEMT_ENB	O	Disable	Enable			B11
	B12	FWBCEMT_CRT	O	Ready	Normal			B12
	B13	FWBCASN	I	Not Contact	Contact			B13
CN275	1	MDWLKSN	I	Unlock	Lock	CN290	DUB	1
	2	EEXUNIRST	O	Reset Off	Reset On			2
	3	EEXUARTTXD	O					3
	4	EEXUARTRXD	I	Break On	Break Off			4
	5	EEXLKMT_B	O					5
	6	EEXLKMT_A	O					6
	7	GND	G					7
	8	+24V	P					8

PFB Pin Assign Information

Connector (FROM)		Signal Information				Connector (TO)		
No	Pin No	Signal Name	Direction	L	H	No	To Connector	Pin No
CN276	1	EEX_SN_N	I	Paper	No Paper	CN295	DUB	13
	2	EEXRVSN_N	I	Paper	No Paper			12
	3	RDPCVSN4	I	Paper	No Paper			11
	4	RDPCVSN3	I	Paper	No Paper			10
	5	RDPCVSN2	I	Paper	No Paper			9
	6	RDPCVSN1	I	Paper	No Paper			8
	7	RDPRVSN_N	I	Paper	No Paper			7
	8	RDPINSN	I	Paper	No Paper			6
	9	RDPOUSN_N	I	Paper	No Paper			5
	10	RDPEGSN11_N	I	Edge Detect	No Edge Detect			4
	11	CRG_SN	I	Paper	No Paper			3
	12	MHDRYSN_N	I	Paper	No Paper			2
	13	CPGRYSN_N	I	Paper	No Paper			1
	14	GND	G					27
	15	CBUPTSN_B	I					26
	16	CBUPTSN_A	I					25
	17	HHDPTSN_B	I	Off	On			24
	18	HHDPTSN_A	I	Off	On			23
	19	GND	G					22
	20	RDPHPSN2_N	I	Not HP	HP			21
	21	RDPHPSN1_N	I	Not HP	HP			20
	22	SFTHPSN_N	I	Not HP	HP			19
	23	EEXHPSN_N	I	Not HP	HP			18
	24	RRVINSN	I	Paper	No Paper			17
	25	RRVOUSN	I	Paper	No Paper			16
	26	EEXRSN_N	I	Paper	No Paper			15
CN277	1	+5V	P			CN977	MKB	13
	2	KKY_KC_SET	I	Set	Not Set			12
	3	KKY_KC_D1	O	0	1			11
	4	KKY_KC_D2	O	0	1			10
	5	KKY_KC_D3	O	0	1			9
	6	KKY_KC_D4	O	0	1			8
	7	KKY_KC_D5	O	0	1			7
	8	KKY_KC_D6	O	0	1			6
	9	KKY_KC_D7	O	0	1			5
	10	KKY_KC_D8	O	0	1			4
	11	GND	G					3
	12	KKY_KC_UP	O	Count Off	Count On			2
	13	+24V_CNT	O					1
	14	GND	G			CN978	Key Counter	4
	15	KKY_CT_SET	I	Set	Not Set			3
	16	+24V_CNT	O					2
	17	KKY_CT_DRV	O	Drive Off	Drive On			1
CN278	1	FFC_CNCT1	I			CN213	IOB	50
	2	IOB_WAKE	O					49
	3	INT_N	O	Not Interrupt	Interrupt			48
	4	GND	G					47
	5	N.C.	N					46
	6	WWRTMSNM_AN	I					45
	7	WWRTMSNK_AN	I					44
	8	GND	G					43
	9	PFB_VODKA3_CS_N	I					42
	10	WS_N	I					41
	11	RD_N	I					40
	12	PFB_VODKA2_CS_N	I					39
	13	PFB_VODKA1_CS_N	I					38
	14	GND	G					37
	15	DB(24)	B					36
	16	DB(25)	B					35
	17	DB(26)	B					34
	18	DB(27)	B					33
	19	GND	G					32
	20	DB(28)	B					31
	21	DB(29)	B					30
	22	DB(30)	B					29
	23	DB(31)	B					28
	24	GND	G					27
	25	AD(0)	I					26
	26	AD(1)	I					25
	27	AD(2)	I					24
	28	AD(3)	I					23
	29	AD(4)	I					22
	30	AD(5)	I					21
	31	AD(6)	I					20
	32	AD(7)	I					19
	33	GND	G					18
	34	AD(8)	I					17
	35	AD(9)	I					16
	36	AD(10)	I					15
	37	AD(11)	I					14
	38	AD(12)	I					13
	39	AD(13)	I					12
	40	AD(14)	I					11
	41	AD(15)	I					10
	42	GND	G					9
	43	AD(16)	I					8
	44	AD(17)	I					7
	45	AD(18)	I					6
	46	AD(19)	I					5
	47	AD(20)	I					4
	48	GND	G					3
	49	BCURST	I					2
	50	FFC_CNCT1	O					1
CN279	1	+5V	P			CN442L	PSU-FW	1
	2	GND	G					3
	3	+24V	P			CN445L	PSU-FW	3
	4	GND	G			CN445R	PSU-ECO	6
	5	+24VS	P					1

IOB Pin Assign Information

Connector (FROM)		Signal Information				Connector (TO)		
No	Pin No	Signal Name	Direction	L	H	No	To Connector	Pin No
CN200	1	+24VS6_2	P			CN705	Drum Cleaning Motor (Y)	8
	2	GND	G					7
	3	+5V	P					6
	4	PDCDRMTYON	O					5
	5	PDCDRMTYCLK	O					4
	6	PDCDRMTYFR	O					3
	7	PDCDRMTYLOCK	I	Normal	Error			2
	8	PDCDRMTYGAIN	O					1
	9	+24VS6_2	P			CN707	Drum Cleaning Motor (M)	8
	10	GND	G					7
	11	+5V	P					6
	12	PDCDRMTMON	O					5
	13	PDCDRMTMCLK	O					4
	14	PDCDRMTMFR	O					3
	15	PDCDRMTMLOCK	I	Normal	Error			2
	16	PDCDRMTMGAIN	O					1
	17	+24VS6_2	P			CN701	Drum Cleaning Motor (C)	8
	18	GND	G					7
	19	+5V	P					6
	20	PDCDRMTCON	O					5
	21	PDCDRMTCCLK	O					4
	22	PDCDRMTCFR	O					3
	23	PDCDRMTCLOCK	I	Normal	Error			2
	24	PDCDRMTCGAIN	O					1
	25	+24VS6_2	P			CN703	Drum Cleaning Motor (K)	8
	26	GND	G					7
	27	+5V	P					6
	28	PDCDRMTKON	O					5
	29	PDCDRMTKCLK	O					4
	30	PDCDRMTKFR	O					3
	31	PDCDRMTKLOCK	I	Normal	Error			2
	32	PDCDRMTKGAIN	O					1
CN201	A1	PDRDRMTYW	O			CN712	Drum Motor (Y)	8
	A2	PDRDRMTYV	O					7
	A3	PDRDRMTYU	O					6
	A4	GND	G					5
	A5	PDRDRMTYHW	I					4
	A6	PDRDRMTYHV	I					3
	A7	PDRDRMTYHU	I					2
	A8	+5V	P					1
	B1	PDRDRMTMW	O			CN713	Drum Motor (M)	8
	B2	PDRDRMTMV	O					7
	B3	PDRDRMTMU	O					6
	B4	GND	G					5
	B5	PDRDRMTMHW	I					4
	B6	PDRDRMTMHV	I					3
	B7	PDRDRMTMHU	I					2
	B8	+5V	P					1
CN202	A1	PDRDRMTCW	O			CN722	Drum Motor (C)	8
	A2	PDRDRMTCV	O					7
	A3	PDRDRMTCU	O					6
	A4	GND	G					5
	A5	PDRDRMTCHW	I					4
	A6	PDRDRMTCHV	I					3
	A7	PDRDRMTCHU	I					2
	A8	+5V	P					1
	A9	N.C.	N					
	B1	PDRDRMTKW	O			CN723	Drum Motor (K)	8
	B2	PDRDRMTKV	O					7
	B3	PDRDRMTKU	O					6
	B4	GND	G					5
	B5	PDRDRMTKHW	I					4
	B6	PDRDRMTKHV	I					3
	B7	PDRDRMTKHU	I					2
	B8	+5V	P					1
	B9	N.C.	N					
CN203	1	+24VS5_1	P			CN669	Drum Potential Sensor Board	7
	2	GND	G					6
	3	GND	G					5
	4	VSN_K_FB	I					4
	5	VSN_C_FB	I					3
	6	VSN_M_FB	I					2
	7	VSN_Y_FB	I					1
CN204	1	GND	G			CN2	TD Sensor (Y)	6
	2	HST_Y_FB	I					5
	3	HST_VCC	P					4
	4	HST_Y_PWM	O					3
	5	HSTSDA	B					2
	6	HSTSCL	O					1
	7	GND	G			CN2	TD Sensor (M)	6
	8	HST_M_FB	I					5
	9	HST_VCC	P					4
	10	HST_M_PWM	O					3
	11	HSTSDA	B					2
	12	HSTSCL	O					1
	13	GND	G			CN2	TD Sensor (C)	6
	14	HST_C_FB	I					5
	15	HST_VCC	P					4
	16	HST_C_PWM	O					3
	17	HSTSDA	B					2
	18	HSTSCL	O					1
	19	GND	G			CN2	TD Sensor (K)	6
	20	HST_K_FB	I					5
	21	HST_VCC	P					4
	22	HST_K_PWM	O					3
	23	HSTSDA	B					2
	24	HSTSCL	O					1
CN205	1	GND	G			CN150	H.V.P.P. (Y,M)	18
	2	PP_GZ_M_LK	I	Normal	SC			17
	3	PP_GZ_M_PWM	O					16
	4	PP_GZ_Y_LK	I	Normal	SC			15
	5	PP_GZ_Y_PWM	O					14
	6	PP_TD_M_LK	I	Normal	SC			13
	7	PP_TD_DC_M_PWM	O					12
	8	PP_TD_M_FB	I					11
	9	PP_TD_AC_M_PWM	O					10
	10	PP_TD_Y_LK	I	Normal	SC			9
	11	PP_TD_DC_Y_PWM	O					8
	12	PP_TD_Y_FB	I					7
	13	PP_TD_AC_Y_PWM	O					6
	14	GND	G					5
	15	PP_TD_CLK_YM	O					4
	16	GND	G					3
	17	+24VS5_1	P					2
	18	+24VS5_1	P					1
	19	N.C.	N					
	20	GND	G			CN160	H.V.P.P. (C,K)	18
	21	PP_GZ_K_LK	I	Normal	SC			17
	22	PP_GZ_K_PWM	O					16
	23	PP_GZ_C_LK	I	Normal	SC			15
	24	PP_GZ_C_PWM	O					14
	25	PP_TD_K_LK	I	Normal	SC			13
	26	PP_TD_DC_K_PWM	O					12
	27	PP_TD_K_FB	I					11
	28	PP_TD_AC_K_PWM	O					10
	29	PP_TD_C_LK	I	Normal	SC			9
	30	PP_TD_DC_C_PWM	O					8
	31	PP_TD_C_FB	I					7
	32	PP_TD_AC_C_PWM	O					6
	33	GND	G					5
	34	PP_TD_CLK_CK	O					4
	35	GND	G					3
	36	+24VS5_1	P					2
	37	+24VS5_1	P					1
	38	N.C.	N					

IOB Pin Assign Information

Connector (FROM)		Signal Information				Connector (TO)		
No	Pin No	Signal Name	Direction	L	H	No	To Connector	Pin No
CN206	1	N.C.	N					
	2	N.C.	N					
	3	N.C.	N					
	4	+24VS6_1	P			CN943	Laser Unit Cooling Fan (R)	3
	5	WWRCLFNRT_LK	I	Off	On			2
	6	WWRCLFNRT	O					1
	7	TH_M	I			CN488	LD Unit Thermistor (Y,M)	2
	8	GND	G					1
	9	STM_SKW_M_A-	O	Off	On	CN489	Lens Positioning Motor (M)	5
	10	STM_SKW_M_B-	O	Off	On			4
	11	+24VS6_1	P					3
	12	STM_SKW_M_B	O	Off	On			2
	13	STM_SKW_M_A	O	Off	On			1
	14	STM_SKW_Y_A-	O	Off	On	CN490	Lens Positioning Motor (Y)	5
	15	STM_SKW_Y_B-	O	Off	On			4
	16	+24VS6_1	P					3
	17	STM_SKW_Y_B	O	Off	On			2
	18	STM_SKW_Y_A	O	Off	On			1
	19	TH_K	I			CN485	LD Unit Thermistor (C,K)	2
	20	GND	G					1
	21	STM_SKW_C_A-	O	Off	On	CN486	Lens Positioning Motor (C)	5
	22	STM_SKW_C_B-	O	Off	On			4
	23	+24VS6_1	P					3
	24	STM_SKW_C_B	O	Off	On			2
	25	STM_SKW_C_A	O	Off	On			1
	26	GND	G			CN482	LD Shutter Sensor (C, K only)	3
	27	MST_SN	I	Close	Open			2
	28	+5V	P					1
	29	MST_MT_A-	O	Off	On	CN483	LD Shutter Motor (C, K only)	5
	30	MST_MT_B-	O	Off	On			4
	31	+24VS6_1	P					3
	32	MST_MT_B	O	Off	On			2
	33	MST_MT_A	O	Off	On			1
	34	+24VS6_1	P			CN944	Laser Unit Cooling Fan (L)	3
	35	WWRCLFNLT_LK	I	Off	On			2
	36	WWRCLFNLT	O					1
CN207	1	+24VS6_1	P			CN766	PCL (Y)	2
	2	PCL_Y	O					1
	3	GND	G			CN767	Lubricant End Detection (Y)	4
	4	PZSNESWY1	I	Near End	Normal			3
	5	GND	G					2
	6	PZSNESWY2	I	Near End	Normal			1
	7	GND	G			CN767	Detection (Y): Front/Rear	2
	8	PZS_SSY	I	Set	Not Set			1
	9	GND	G			CN1128	PCDU Set Switch (Y)	2
	10	PPCSTSNY	I	Set	Not Set			1
	11	+24VS6_1	P			CN766	PCL (M)	2
	12	PCL_M	O					1
	13	GND	G			CN783	Lubricant End Detection (M)	4
	14	PZSNESWM1	I	Near End	Normal			3
	15	GND	G					2
	16	PZSNESWM2	I	Near End	Normal			1
	17	GND	G			CN783	Detection (M): Front/Rear	2
	18	PZS_SSM	I	Set	Not Set			1
	19	GND	G			CN1126	PCDU Set Switch (M)	2
	20	PPCSTSNM	I	Set	Not Set			1
	21	+24VS6_1	P			CN766	PCL (C)	2
	22	PCL_C	O					1
	23	GND	G			CN784	Lubricant End Detection (C)	4
	24	PZSNESWC1	I	Near End	Normal			3
	25	GND	G					2
	26	PZSNESWC2	I	Near End	Normal			1
	27	GND	G			CN784	Detection (C): Front/Rear	2
	28	PZS_SSC	I	Set	Not Set			1
	29	GND	G			CN1124	PCDU Set Switch (C)	2
	30	PPCSTSNC	I	Set	Not Set			1
	31	+24VS6_1	P			CN766	PCL (K)	2
	32	PCL_K	O					1
	33	GND	G			CN785	Lubricant End Detection (K)	4
	34	PZSNESWB1	I	Near End	Normal			3
	35	GND	G					2
	36	PZSNESWB2	I	Near End	Normal			1
	37	GND	G			CN785	Detection (K): Front/Rear	2
	38	PZS_SSK	I	Set	Not Set			1
	39	GND	G			CN1122	PCDU Set Switch (K)	2
	40	PPCSTSNK	I	Set	Not Set			1
CN208	1	ADF_POW_ON_N	I			CN579	IPU	15
	2	ADF_RXD	O					14
	3	ADF_TXD	I					13
	4	DFGATE_N	I					12
CN209	1	N.C.	N					
	2	N.C.	N					
	3	+5VE_DOC	P			CN116	ADF Main Board	8
	4	ADF_RXD	I					7
	5	DOCSET_N	I					6
	6	ADF_TXD	O					5
	7	DFGATE_N	O					4
	8	+5V	P					3
	9	GND	G					2
	10	ADF_POW_ON_N	O					1
	11	+24VS6_1	P			CN578	IPU	8
	12	+24VS6_1	P					7
	13	GND	G					6
	14	GND	G					5
	15	GND	G					4
	16	+24VS5_1	P					3
	17	+24VS5_1	P					2
	18	GND	G					1
	19	GND	G			CN644	Temperature/Humidity Sensor	2
	20	MMICLTS	I					1
	21	GND	G			CN791	ADF Position Sensor	3
	22	AKS	I					2
	23	+5VE_AKS	P					1
	24	GND	G			CN792	LCIT	7
	25	RXD_LCT	I	Brake On	Brake Off			6
	26	GND	G					5
	27	TXD_LCT	O					4
	28	+5V	P					3
	29	+5V	P					2
	30	GND	G					1
	31	+24VS6_1	P			CN948	ID Sensor Cleaning Fan	3
	32	CBLTPFN_LK	I	Error	Normal			2
	33	CBLTPFN	O					1
	34	+24VS6_1	P			CN1052	Controller Box Exhaust Fan	3
	35	MEBEFFN_LK	I	Normal	Error			2
	36	MEBEFFN	O	Off	On			1
CN210	1	PP_SP_AC_PWM	O			CN294	DUB	24
	2	PP_SP_DC_PWM	O					23
	3	PP_SP_LK	I					22
CN211	1	GND	G			CN312	TSB	1
	2	TS_ST	I	Set	Not Set			2
	3	TSB_RST_P	O					3
	4	GND	G					4
	5	TAGSCL	O					5
	6	TAGSDA	B					6
	7	GND	G					7
	8	RXD_TSB	I	Brake On	Brake Off			8
	9	TXD_TSB	O					9
	10	NSP_OC_SW	I	Close	Open			10
	11	TAG_VCC	P					11

IOB Pin Assign Information

Connector (FROM)		Signal Information				Connector (TO)		
No	Pin No	Signal Name	Direction	L	H	No	To Connector	Pin No
CN212	1	FB_FFC_IOB	O			CN103	BCU	50
	2	TAG_SDA	B					49
	3	TAG_SCL	I					48
	4	HST_SDA	B					47
	5	HST_SCL	I					46
	6	GND	G					45
	7	PON_RST_P	I					44
	8	IOB_WAKE	O					43
	9	IOB3_INT	O					42
	10	IOB2_INT	O					41
	11	IOB1_INT	O					40
	12	IOB_A(20)	I					39
	13	IOB_A(19)	I					38
	14	IOB_A(18)	I					37
	15	IOB_A(17)	I					36
	16	IOB_A(16)	I					35
	17	IOB_A(15)	I					34
	18	IOB_A(14)	I					33
	19	IOB_A(13)	I					32
	20	IOB_A(12)	I					31
	21	IOB_A(11)	I					30
	22	IOB_A(10)	I					29
	23	IOB_A(9)	I					28
	24	IOB_A(8)	I					27
	25	GND	G					26
	26	IOB_A(7)	I					25
	27	IOB_A(6)	I					24
	28	IOB_A(5)	I					23
	29	IOB_A(4)	I					22
	30	IOB_A(3)	I					21
	31	IOB_A(2)	I					20
	32	IOB_A(1)	I					19
	33	IOB_A(0)	I					18
	34	GND	G					17
	35	IOB_D(31)	B					16
	36	IOB_D(30)	B					15
	37	IOB_D(29)	B					14
	38	IOB_D(28)	B					13
	39	IOB_D(27)	B					12
	40	IOB_D(26)	B					11
	41	IOB_D(25)	B					10
	42	IOB_D(24)	B					9
	43	GND	G					8
	44	IOB3_CS_N	I					7
	45	IOB2_CS_N	I					6
	46	IOB1_CS_N	I					5
	47	IOB_RD_WR_N	I					4
	48	IOB_RD_N	I					3
	49	IOB_WS_N	I					2
	50	FFC_IOB	I					1
CN213	1	FFC_IOB	O				PFB	50
	2	PFB_RST_P	O					49
	3	GND	G					48
	4	IOB_AD(20)	O					47
	5	IOB_AD(19)	O					46
	6	IOB_AD(18)	O					45
	7	IOB_AD(17)	O					44
	8	IOB_AD(16)	O					43
	9	GND	G					42
	10	IOB_AD(15)	O					41
	11	IOB_AD(14)	O					40
	12	IOB_AD(13)	O					39
	13	IOB_AD(12)	O					38
	14	IOB_AD(11)	O					37
	15	IOB_AD(10)	O					36
	16	IOB_AD(9)	O					35
	17	IOB_AD(8)	O					34
	18	GND	G					33
	19	IOB_AD(7)	O					32
	20	IOB_AD(6)	O					31
	21	IOB_AD(5)	O					30
	22	IOB_AD(4)	O					29
	23	IOB_AD(3)	O					28
	24	IOB_AD(2)	O					27
	25	IOB_AD(1)	O					26
	26	IOB_AD(0)	O					25
	27	GND	G					24
	28	IOB_DB(31)	B					23
	29	IOB_DB(30)	B					22
	30	IOB_DB(29)	B					21
	31	IOB_DB(28)	B					20
	32	GND	G					19
	33	IOB_DB(27)	B					18
	34	IOB_DB(26)	B					17
	35	IOB_DB(25)	B					16
	36	IOB_DB(24)	B					15
	37	GND	G					14
	38	P_VODKA1_CS_N	O					13
	39	P_VODKA2_CS_N	O					12
	40	RD_N	O					11
	41	WS_N	O					10
	42	P_VODKA3_CS_N	O					9
	43	GND	G					8
	44	TH_K	O					7
	45	TH_M	O					6
	46	GND	G					5
	47	GND	G					4
	48	IOB1_INT	I					3
	49	IOB_WAKE	I					2
	50	FB_FFC_IOB	I					1
CN214	1	TIBHPSN	I	HP	Not HP	CN366	TRDB	A13
	2	TT2CAMTCLK	O					A7
	3	TT2CAMTEN	O					A6
	4	TT2CAMTFR	O					A5
	5	TT2CAMTCC	O					A4
	6	TT2DRMTERR	I					A3
	7	TT2CASN	I	Contact	Not Contact			A2
CN215	1	+24VS5	P			CN444R	PSU-ECO	1
	2	+24VS5	P					2
	3	GND	G					5
	4	GND	G					6
	5	+5V	P			CN443L	PSU-FW	2
	6	GND	G					8
	7	GND	G			CN445L	PSU-ECO	6
	8	+24VS6	P					1

IOB Pin Assign Information

Connector (FROM)		Signal Information				Connector (TO)		
No	Pin No	Signal Name	Direction	L	H	No	To Connector	Pin No
CN216	1	PP_2TAC_DUTY	O			CN1082	H.V.P.P. (T1) (D137/D138 only)	5
	2	PP_2TAC_SC	I					4
	3	PP_2TAC_PWM	O					3
	4	GND	G					2
	5	+24VS5_1	P					1
	6	TDRBRST	O			CN364	TDRB	19
	7	TT1CASN	I	Contact	Not Contact			18
	8	TTISTSS	I	Set	Not Set			17
	9	TTIEN1	I					13
	10	TTIEN2B	I					7
	11	TTIEN2A	I					5
	12	TTIDRMTBRK	O					4
	13	TTIDRMTFR	O					3
	14	TTIDRMTON	O					2
	15	TTIDRMTPWM	O					1
	16	TTIFBLESB	O					12
	17	N.C.	N					
	18	N.C.	N					
	19	N.C.	N					
	20	TTIFBLEMN	O			CN364	TDRB	8
	21	N.C.	N					
	22	PP_2T_CCCV	O	Current CTL	Voltage CTL	CN165	H.V.P.P. (T1/T2)	19
	23	PP_1T_M_FB	I					18
	24	PP_1T_M_LK	I					17
	25	PP_1T_M_PWM	O					16
	26	PP_1T_C_FB	I					15
	27	PP_1T_C_LK	I					14
	28	PP_1T_C_PWM	O					13
	29	PP_1T_K_FB	I					12
	30	PP_1T_K_LK	I					11
	31	PP_1T_K_PWM	O					10
	32	PP_1T_Y_FB	I					9
	33	PP_1T_Y_LK	I					8
	34	PP_1T_Y_PWM	O					7
	35	PP_2TB_PWM	O					6
	36	PP_2T_FB	I					5
	37	PP_2T_LK	I					4
	38	PP_2T_PWM	O					3
	39	GND	G					2
	40	+24VS5_1	P					1
CN217	A1	TT2DRMTW	O			CN708	PTR Drive Motor	8
	A2	TT2DRMTV	O					7
	A3	TT2DRMTU	O					6
	A4	GND	G					5
	A5	TT2DRMTHW	I					4
	A6	TT2DRMTHV	I					3
	A7	TT2DRMTHU	I					2
	A8	+5V	P					1
	B1	GND	G			CN710	PTR Drive Motor Encorder 2	3
	B2	TT2EN2	I					2
	B3	+5V	P					1
	B4	GND	G			CN709	PTR Drive Motor Encorder 1	3
	B5	TT2EN1	I					2
	B6	+5V	P					1
	B7	TTICAMTO1	O			CN711	ITB Lift Motor	2
	B8	TTICAMTO2	O					1
CN218	1	FIIERR	I			CN444R	IH Coil Inverter	7
	2	FIITXD	O					6
	3	FIIRXD	I					5
	4	FIIENBL	O					4
	5	ZEROX2	I					3
	6	GND	G					2
	7	+5V	P					1
	8	N.C.	N					
	9	+24VS6_2	P			CN980	PCU Fan (R)	3
	10	QPS_FNRT_LK	I	Normal	Error			2
	11	QPS_FNRT	O	On	Off			1
	12	+24VS6_2	P			CN981	PCU Fan (L)	3
	13	QPS_FNLT_LK	I	Normal	Error			2
	14	QPS_FNLT	O	On	Off			1
	15	N.C.	N					
	16	N.C.	N					
	17	SWTRG2	O			CN403	AC Drive Board	14
	18	ZEROX1	I	Zero Cross	Not Zero Cross			13
	19	+5V	P					12
	20	TRG_PRES	O	Off	On			11
	21	RLY1_PW	O	Off	On			10
	22	+24VS5_2	P					9
	23	GND	G					8
	24	+24VS6_2	P					7
	25	T_GND_PW	P					6
	26	T_24V_PW	G					5
	27	FIHCLFN	O	On	Off			4
	28	FIHCLFNLK	I	Error	Normal			3
	29	SWTRG1	O					2
	30	+5V_DOOR	I					1
CN219	1	+24VS5_2	P			CN620	Pressure Roller Exhaust Fan (D137/D138 only)	4
	2	FFPEFFN_LK	I	Normal	Error			3
	3	GND	G					2
	4	FFPEFFN_PWM	O					1
	5	FRRDRMT_GAIN	O	1050 to 1500 rpm	1500 to 2660 rpm	CN1095	Fusing Belt Smoothing Roller Motor (D137/D138 only)	10
	6	FRRDRMT_CLK	O					9
	7	FRRDRMT_BRK	O	Brake Off	Brake On			8
	8	FRRDRMT_CW	O	CW	CCW			7
	9	FRRDRMT_STRT	O	Stop	Start			6
	10	FRRDRMT_LK	I	Normal	Error			5
	11	GND	G					4
	12	GND	G					3
	13	+24VS5_2	P					2
	14	+24VS5_2	P					1
	15	N.C.	N					
	16	+5V	P			CN1097	Face Plate Set Switch (D137/D138 only)	2
	17	MPLIRSW	I					1
	18	MPLIRSW	O			CN435	AC Relay Board (D137/D138 only)	2
	19	GND	G					1
	20	+24VS5_2	P			CN340	FDB-M (D137/D138 only)	16
	21	+24VS5_2	P					15
	22	GND	G					14
	23	FDB_ST	I	Set	Not Set			13
	24	+5V	P					12
	25	FRRCAMT_CLK	O					11
	26	FRRCAMT_FR	O	CW	CCW			10
	27	FRRCAMT_STRT	O					9
	28	FRRCAMT_CC	O	Low Power	Normal			8
CN220	1	LWB_MT_GAIN	O	2200 to 2000 rpm	less than 2000 rpm	CN635	Waste Toner Bottle Motor	8
	2	LWB_MT_CLK	O					7
	3	LWB_MT_LK	I	Normal	Error			6
	4	LWB_MT_STRT	O	Stop	Start			5
	5	GND	G					4
	6	GND	G					3
	7	+24VS6_2	P					2
	8	+24VS6_2	P					1
	9	LWBSTSW	I	Set	Not Set	CN637	Waste Toner Bottle Set Switch	2
	10	GND	G					1
	11	GND	G			CN636	Waste Toner Bottle Motor Lock Senser	3
	12	LWBLKSN	I					2
	13	+5V	P					1
	14	GND	G			CN639	Waste Toner Bottle Full Sensor	3
	15	LWBNFSN	I	Not Full	Near Full			2
	16	+5V	P					1

IOB Pin Assign Information

Connector (FROM)		Signal Information				Connector (TO)		
No	Pin No	Signal Name	Direction	L	H	No	To Connector	Pin No
CN221	1	+5V	P			CN686	Fusing Entrance Sensor	3
	2	GND	G					2
	3	FFUINSN	I	Paper	No Paper			1
	4	FHR_TSCT_TH	I	High Temp	-	CN631	Heating Roller Thermo Pile (Center)	3
	5	+5V	P					2
	6	GND	G					1
	7	FHR_TSCT	I					
	8	GND	G			CN630	Waste Toner Transport Motor Sensor	3
	9	LWSLKSN	I	-	-			2
	10	+5V	P					1
	11	GND	G			CN638	Heat Pipe Unit Set Switch	2
	12	MHPSTSW	I	Set	Not Set			1
	13	T_24V	P			CN986	Finisher	8
	14	FINRXD	I	Break	-			7
	15	T_GND	G					6
	16	FINTXD	O					5
	17	+5V	P					4
	18	+5V	P					3
	19	GND	G					2
	20	GND	G					1
CN222	1	N.C.	N					
	2	+5V_ID	P			CN687	ID Chip (Fusing Unit) (D137/D138 only)	4
	3	FFU_ID_SDA	B					3
	4	FFU_ID_SCL	O					2
	5	GND	G					1
	6	FFU_SP4	I			CN675	Fusing Unit Set and Information	11
	7	GND	G					10
	8	FFU_SP3	I					9
	9	GND	G					8
	10	FFU_SP2	I					7
	11	GND	G					6
	12	FFU_SP1	I					5
	13	GND	G					4
	14	FFU_SP0	I					3
	15	GND	G					2
	16	+5V	P			CN684	Pressure Roller Cam Position Sensor	3
	17	FPCPSSNA	I	Interrupt	Not Interrupt			2
	18	GND	G					1
	19	+5V	P			CN683	Pressure Roller Cam Sensor	3
	20	FPCPSSNB	I	Interrupt	Not Interrupt			2
	21	GND	G					1
	22	+5V	P			CN685	Fusing Exit Sensor	3
	23	FFUOUSN	I	Paper	No paper			2
	24	GND	G					1
	25	FPR_TSCT_TH	I	High Temp	-	CN682	Pressure Roller Thermo Pile (Center)	4
	26	+5V_TP	P					3
	27	GND	G					2
	28	FPR_TSCT	I					1
	29	N.C.	N					
	30	N.C.	N					
	31	N.C.	N					
CN223	1	N.C.	N					
	2	N.C.	N					
	3	+5V	P			CN693	Fusing Belt Smoothing Roller Separation Sensor (D137/D138 only)	3
	4	FRRCASN	I	Not HP	HP			2
	5	GND	G					1
	6	GND	G			CN680	Heating Roller Thermistor (Front)	2
	7	FHT_TSFR	I	High Temp	-			1
	8	GND	G			CN679	Hot Roller Thermistor (D137/D138 only)	2
	9	FFU_TS	I					1
	10	N.C.	N			-	-	
	11	N.C.	N					
	12	N.C.	N					
	13	GND	G			CN677	Hot Roller Non-contact Sensor	3
	14	FFR_TS_DET	I					2
	15	FFR_TS_CCM	I					1
	16	+5V	P			CN676	Heating Roller Position Sensor	3
	17	FHRRTSN	I					2
	18	GND	G					1
	19	FFU_SP5	I			T179 T180	Heating Roller Center Thermostat	2
	20	GND	G					1
	21	N.C.	N					
CN224	1	FFU_MT_GAIN	O	1050 to 1500 rpm	1500 to 2660 rpm	CN627	Fusing Motor	10
	2	FFU_MT_CLK	O					9
	3	FFU_MT_BRK	O	Brake Off	Brake On			8
	4	FFU_MT_CW	O	CW	CCW			7
	5	FFU_MT_STRT	O	Stop	Start			6
	6	FFU_MT_LK	I	Normal	Error			5
	7	GND	G					4
	8	GND	G					3
	9	+24VS5_2	P					2
	10	+24VS5_2	P					1
	11	+24VS5_2	P			CN624	Duplex Exhaust Fan (Rear)	3
	12	RDPEFFNBC_LK	I	Normal	Error			2
	13	RDPEFFNBC	O	On	Off			1
	14	+24VS5_2	P			CN989	Duplex Exhaust Fan (Center)	3
	15	RDPEFFNCT_LK	I	Error	Normal			2
	16	RDPEFFNCT	O	Off	On			1
	17	+24VS5_2	P			CN625	Duplex Exhaust Fan (Front)	3
	18	RDPEFFNFR_LK	I	Normal	Error			2
	19	RDPEFFNFR	O	On	Off			1
	20	FFRDSMT_EN_A	I			CN983	Fusing Roller Lift Motor	8
	21	FFRDSMT_EN_B	I					7
	22	+5V	P					6
	23	FFRDSMT_CW	O					5
	24	FFRDSMT_PWM	O					4
	25	FFRDSMT_BRK	O					3
	26	GND	G					2
	27	+24VS5_2	P					1
	28	MHDLWMT_GAIN	O	2200 to 2000 rpm	less than 2000 rpm	CN629	Waste Toner Transport Motor	8
	29	MHDLWMT_CLK	O					7
	30	MHDLWMT_LK	I	Normal	Error			6
	31	MHDLWMT_STRT	O	Stop	Start			5
	32	GND	G					4
	33	GND	G					3
	34	+24VS6_2	P					2
	35	+24VS6_2	P					1
	36	N.C.	N					
	37	N.C.	N					
	38	N.C.	N					

IOB Pin Assign Information

Connector (FROM)		Signal Information				Connector (TO)		
No	Pin No	Signal Name	Direction	L	H	No	To Connector	Pin No
CN225	1	+24VS6_2	P			CN941	Development Exhaust Fan (R)	3
	2	ODVEFFNRT_LK	I	Error	Normal			2
	3	ODVEFFN	O					1
	4	+24VS6_2	P			CN942	Development Exhaust Fan (L)	3
	5	ODVEFFNLT_LK	I	Error	Normal			2
	6	ODVEFFN	O					1
	7	+24VS6_2	N			CN946	Heat Pipe Panel Intake Fan	3
	8	MHNSFFN_LK	N	Error	Normal			2
	9	MHNSFFN	N	Off	On			1
	10	+24VS6_2	P			CN949	Heat Pipe Panel Exhaust Fan	3
	11	MHNEFFN_LK	I	Error	Normal			2
	12	MHNEFFN	O	Off	On			1
	13	N.C.	N					
	14	N.C.	N					
	15	N.C.	N					
	16	+24VS6_2	P			CN621	Ozone Exhaust Fan	4
	17	MOZEFFN_LK	I	Normal	Error			3
	18	GND	G					2
	19	MOZEFFN_PWM	O					1
	20	+24VS6_2	P			CN626	Fusing Unit Exhaust Fan	4
	21	FFUEEFN_LK	I	Normal	Error			3
	22	GND	G					2
	23	FFUEEFN_PWM	O					1
	24	+24VS6_2	P			CN622	Drive Motors Exhaust Fan (L)	4
	25	MDVEFFNLT_LK	I	Normal	Error			3
	26	GND	G					2
	27	MDVEFFNLT_PWM	O					1
	28	+24VS6_2	P			CN623	PTR/Fusing Exhaust Fan	3
	29	FFUEFFN_LK	I	Normal	Error			2
	30	FFUEFFN	O	On	Off			1
CN226	1	GND	G			CN1105	Development Roller HP Sensor (Y) (D137/D138 only)	3
	2	ODSHPSNY	I	Not HP	HP			2
	3	+5V	P					1
	4	GND	G			CN1106	Development Roller HP Sensor (M) (D137/D138 only)	3
	5	ODSHPSNM	I	Not HP	HP			2
	6	+5V	P					1
	7	GND	G			CN1107	Development Roller HP Sensor (C) (D137/D138 only)	3
	8	ODSHPSNC	I	Not HP	HP			2
	9	+5V	P					1
	10	GND	G			CN1108	Development Roller HP Sensor (K) (D137/D138 only)	3
	11	ODSHPSNK	I	Not HP	HP			2
	12	+5V	P					1
CN227	1	N.C.	N					
	2	N.C.	N					
	3	ODVDRMTYCLK	O			CN704	Development Motor (Y)	7
	4	ODVDRMTYLOCK	I	Normal	Error			6
	5	ODVDRMTYON	O					5
	6	GND	G					4
	7	GND	G					3
	8	+24VS6_2	P					2
	9	+24VS6_2	P					1
	10	N.C.	N					
	11	ODVDRMTMCLK	O			CN706	Development Motor (M)	7
	12	ODVDRMTMLOCK	I	Normal	Error			6
	13	ODVDRMTMON	O					5
	14	GND	G					4
	15	GND	G					3
	16	+24VS6_2	P					2
	17	+24VS6_2	P					1
	18	N.C.	N					
	19	ODVDRMTCCLK	O			CN700	Development Motor (C)	7
	20	ODVDRMTCLOCK	I	Normal	Error			6
	21	ODVDRMTCON	O					5
	22	GND	G					4
	23	GND	G					3
	24	+24VS6_2	P					2
	25	+24VS6_2	P					1
	26	N.C.	N					
	27	ODVDRMTKCLK	O			CN702	Development Motor (K)	7
	28	ODVDRMTKLOCK	I	Normal	Error			6
	29	ODVDRMTKON	O					5
	30	GND	G					4
	31	GND	G					3
	32	+24VS6_2	P					2
	33	+24VS6_2	P					1
	34	N.C.	N					
CN229	1	PHRHPSNY	I	Not HP	HP	CN1109	Drum HP Sensor (Y) (D137/D138)	3
	2	GND	G					2
	3	+5V	P					1
	4	GND	G			CN714	Drum Motor Encoder (Y2)	3
	5	PDRENY2	I					2
	6	+5V	P					1
	7	GND	G			CN715	Drum Motor Encoder (Y1)	3
	8	PDRENY1	I					2
	9	+5V	P					1
	10	PHRHPSNM	I	Not HP	HP	CN1109	Drum HP Sensor (M) (D137/D138)	3
	11	GND	G					2
	12	+5V	P					1
	13	GND	G			CN714	Drum Motor Encoder (M2)	3
	14	PDRENM2	I					2
	15	+5V	P					1
	16	GND	G			CN715	Drum Motor Encoder (M1)	3
	17	PDRENM1	I					2
	18	+5V	P					1
	19	PHRHPSNC	I	Not HP	HP	CN1109	Drum HP Sensor (C) (D137/D138)	3
	20	GND	G					2
	21	+5V	P					1
	22	GND	G			CN714	Drum Motor Encoder (C2)	3
	23	PDRENC2	I					2
	24	+5V	P					1
	25	GND	G			CN715	Drum Motor Encoder (C1)	3
	26	PDRENC1	I					2
	27	+5V	P					1
	28	PHRHPSNK	I	Not HP	HP	CN1109	Drum HP Sensor (K) (D137/D138)	3
	29	GND	G					2
	30	+5V	P					1
	31	GND	G			CN714	Drum Motor Encoder (K2)	3
	32	PDRENK2	I					2
	33	+5V	P					1
	34	GND	G			CN715	Drum Motor Encoder (K1)	3
	35	PDRENK1	I					2
	36	+5V	P					1

DUB Pin Assign Information

Connector (FROM)		Signal Information				Connector (TO)		
No	Pin No	Signal Name	Direction	L	H	No	To Connector	Pin No
CN290	1	MDW_LK_SN	O			CN275	PFB	1
	2	PFB_RST	I					2
	3	PFB_RXD	I					3
	4	PFB_TXD	O					4
	5	MDW_LK_MT_TRG_B	I					5
	6	MDW_LK_MT_TRG_A	I					6
	7	BM_GND	G					7
	8	+24V	P					8
CN291	1	+5V	P			CN443L	PSU-FW	4
	2	GND	G					10
CN292	1	+24VS	P			CN445R	PSU-ECO	2
	2	GND	G					7
CN293	A1	DW_ST_SN	I	Set	Not Set	CN274	PFB	A1
	A2	CSR_MT_1_MT_CLK	I					A2
	A3	CSR_MT_1_MT_FR	I					A3
	A4	CSR_MT_1_MT_EN	I					A4
	A5	CSR_MT_1_MT_CC	I					A5
	A6	CSR_MT_2_MT_CLK	I					A6
	A7	CSR_MT_2_MT_FR	I					A7
	A8	CSR_MT_2_MT_EN	I					A8
	A9	CSR_MT_2_MT_CC	I					A9
	A10	RDP_RV_SL_TRG	I					A10
	A11	REX_SL_TRG	I					A11
	A12	N.C.	N					-
	A13	N.C.	N					-
	B1	RRV_DV_MT_CLK	I					B1
	B2	RRV_DV_MT_FR	I					B2
	B3	RRV_DV_MT_EN	I					B3
	B4	RRV_DV_MT_CC	I					B4
	B5	CSI_MT_CLK	I					B5
	B6	CSI_MT_FR	I					B6
	B7	CSI_MT_EN	I					B7
	B8	CSI_MT_CC	I					B8
	B9	FWB_CA_MT_CLK	I					B9
	B10	FWB_CA_MT_FR	I					B10
	B11	FWB_CA_MT_EN	I					B11
	B12	FWB_CA_MT_CC	I					B12
	B13	FWB_CA_SN	O					B13
CN294	1	N.C.	N			CN273	PFB	
	2	N.C.	N					
	3	N.C.	N					
	4	N.C.	N					
	5	EEX_MT_EC_A	O					A16
	6	EEX_MT_EC_B	O					A15
	7	EEX_MT_FR	I					A14
	8	EEX_MT_PWM	I					A13
	9	EEX_MT_BRK	I					A12
	10	RRV_IN_MT_EC_A	O					A11
	11	RRV_IN_MT_EC_B	O					A10
	12	RRV_IN_MT_FR	I					A9
	13	RRV_IN_MT_PWM	I					A8
	14	RRV_IN_MT_BRK	I					A7
	15	EEX_RV_MT_EC_A	O					A6
	16	EEX_RV_MT_EC_B	O					A5
	17	EEX_RV_MT_FR	I					A4
	18	EEX_RV_MT_PWM	I					A3
	19	EEX_RV_MT_BRK	I					A2
	20	GND	G					A1
	21	N.C.	N					
	22	TSP_PP_LK	O			CN210	IOB	3
	23	TSP_PP_DC_PWM	I					2
	24	TSP_PP_AC_PWM	I					1
	25	CRG_MT_EC_A	O			CN273	PFB	B16
	26	CRG_MT_EC_B	O					B15
	27	CRG_MT_FR	I					B14
	28	CRG_MT_PWM	I					B13
	29	CRG_MT_BRK	I					B12
	30	RDP_CV_MT_EC_A	O					B11
	31	RDP_CV_MT_EC_B	O					B10
	32	RDP_CV_MT_FR	I					B9
	33	RDP_CV_MT_PWM	I					B8
	34	RDP_CV_MT_BRK	I					B7
	35	RDP_OU_MT_EC_A	O					B6
	36	RDP_OU_MT_EC_B	O					B5
	37	RDP_OU_MT_FR	I					B4
	38	RDP_OU_MT_PWM	I					B3
	39	RDP_OU_MT_BRK	I					B2
	40	CCT_PA_SN	O					B1
CN295	1	CPG_RY_SN	O			CN276	PFB	13
	2	CBU_SN_PFB	O					12
	3	CRG_SN_PFB	O					11
	4	EG_SN_1_PFB	O					10
	5	RDP_OU_SN_PFB	O					9
	6	RDP_IN_SN_PFB	O					8
	7	RDP_RV_SN_PFB	O					7
	8	RDP_CV_SN_1_PFB	O					6
	9	RDP_CV_SN_2_PFB	O					5
	10	RDP_CV_SN_3_PFB	O					4
	11	RDP_CV_SN_4_PFB	O					3
	12	EEX_RV_SN_PFB	O					2
	13	EEX_SN_PFB	O					1
	14	N.C.	N					-
	15	EEX_RY_SN_PFB	O					26
	16	RRV_OU_SN_PFB	O					25
	17	RRV_IN_SN_PFB	O					24
	18	RRV_DV_HP_SN	O					23
	19	CSI_HP_SN	O					22
	20	RDP_HP_SN_1	O					21
	21	RDP_HP_SN_2	O					20
	22	GND	G					19
	23	HHD_PT_SN_A	O					18
	24	HHD_PT_SN_B	O					17
	25	CBU_PT_SN_A	O					16
	26	CBU_PT_SN_B	O					15
	27	GND	G					14
	28	N.C.	N					-

DUB Pin Assign Information

Connector (FROM)		Signal Information				Connector (TO)		
No	Pin No	Signal Name	Direction	L	H	No	To Connector	Pin No
CN296	1	+24VS	P			CN921	Shift Sensor Motor	6
	2	+24VS	P					5
	3	CSI_MT_A	O					4
	4	CSI_MT_A-	O					3
	5	CSI_MT_B	O					2
	6	CSI_MT_B-	O					1
	7	+24VS	P			CN923	Shift Roller Motor 2	6
	8	+24VS	P					5
	9	CSR_MT_2_A	O					4
	10	CSR_MT_2_A-	O					3
	11	CSR_MT_2_B	O					2
	12	CSR_MT_2_B-	O					1
	13	+24VS	P			CN807	Shift Roller Motor 1	6
	14	+24VS	P					5
	15	CSR_MT_1_A	O					4
	16	CSR_MT_1_A-	O					3
	17	CSR_MT_1_B	O					2
	18	CSR_MT_1_B-	O					1
	19	N.C.	N					
	20	+24VS	P			CN801	Heat Pipe Roller Cooling Fan	3
	21	MHP_CL_FN_ERR	I	Error	Normal			2
	22	MHP_CL_FN	O	Off	High Spd			1
	23	+24VS	P			CN802	IH Coil Cooling Fan	3
	24	FIC_CL_FN_ERR	I	Error	Normal			2
	25	FIC_CL_FN	O	Off	On			1
	26	+24VS	P			CN803	Pressure Roller Intake Fan (D137/D138 only)	4
	27	FFP_SF_FN_ERR	I	Normal	Error			3
	28	GND	G					2
	29	FFP_SF_FN_PWM	O	Off	On			1
	30	+24VS	P			CN804	Inverter Duplex Solenoid	2
	31	RDP_RV_SL	O					1
	32	+24VS	P			CN805	Inverter Exit Solenoid	2
	33	REX_SL	O					1
	34	+24VS	P			CN806	Inverter Entrance Junction Gate Motor	5
	35	RRV_DV_MT_A-	O					4
	36	RRV_DV_MT_A	O					3
	37	RRV_DV_MT_B	O					2
	38	RRV_DV_MT_B-	O					1
CN297	1	+24VS	P			CN1089	PTB Fan (Rear)	3
	2	CPA_SF_FN_BC_ERR	I	Error	Normal			2
	3	CPA_SF_FN	O	Off	High Spd			1
	4	+24VS	P			CN1090	PTB Fan (Front)	3
	5	CPA_SF_FN_FR_ERR	I	Error	Normal			2
	6	CPA_SF_FN	O	Off	High Spd			1
	7	N.C.	N					
CN298	A1	EEX_MT_EC_A	I			CN927	Paper Exit Motor	8
	A2	EEX_MT_EC_B	I					7
	A3	+5V	P					6
	A4	EEX_MT_FR	O					5
	A5	EEX_MT_PWM	O					4
	A6	EEX_MT_BRK	O					3
	A7	GND	G					2
	A8	+24VS	P					1
	A9	RRV_IN_MT_EC_A	I			CN925	Inverter Entrance Motor	8
	A10	RRV_IN_MT_EC_B	I					7
	A11	+5V	P					6
	A12	RRV_IN_MT_FR	O					5
	A13	RRV_IN_MT_PWM	O					4
	A14	RRV_IN_MT_BRK	O					3
	A15	GND	G					2
	A16	+24VS	P					1
	B1	RDP_OU_MT_EC_A	I			CN922	Duplex Exit Motor	8
	B2	RDP_OU_MT_EC_B	I					7
	B3	+5V	P					6
	B4	RDP_OU_MT_FR	O					5
	B5	RDP_OU_MT_PWM	O					4
	B6	RDP_OU_MT_BRK	O					3
	B7	GND	G					2
	B8	+24VS	P					1
	B9	RDP_CV_MT_EC_A	I			CN928	Duplex Transport Motor	8
	B10	RDP_CV_MT_EC_B	I					7
	B11	+5V	P					6
	B12	RDP_CV_MT_FR	O					5
	B13	RDP_CV_MT_PWM	O					4
	B14	RDP_CV_MT_BRK	O					3
	B15	GND	G					2
	B16	+24VS	P					1
CN299	1	CRG_MT_EC_A	I			CN1041	Registration Motor	8
	2	CRG_MT_EC_B	I					7
	3	+5V	P					6
	4	CRG_MT_FR	O					5
	5	CRG_MT_PWM	O					4
	6	CRG_MT_BRK	O					3
	7	GND	G					2
	8	+24VS	P					1
CN300	1	EEX_RV_MT_EC_A	I			CN926	Inverter Exit Motor	9
	2	EEX_RV_MT_EC_B	I					8
	3	+5V	P					7
	4	EEX_RV_MT_FR	O					6
	5	EEX_RV_MT_PWM	O					5
	6	EEX_RV_MT_BRK	O					4
	7	GND	G					3
	8	+24VS	P					2
	9	N.C.	N					1
CN301	1	+24VS	P			CN940	H.V.P.P. (D)	5
	2	GND	G					4
	3	TSP_PP_AC_PWM	O					3
	4	TSP_PP_DC_PWM	O					2
	5	TSP_PP_LK	I					1
CN302	1	MDW_LK_MT_A	O			CN1094	Drawer Unit Lock Motor	2
	2	MDW_LK_MT_B	O					1
CN303	1	GND	G			CN906	PTB Paper Sensor	3
	2	CCT_PA_SN	I	Paper	No Paper			2
	3	+5V	P					1
	4	GND	G			CN1081	PTB Unit Set Sensor	3
	5	CCT_ST_SN	I	Not Set	Set			2
	6	+5V	P					1
CN304	1	GND	G			CN935	Duplex Exit Sensor	3
	2	RDP_OU_SN	I	Paper	No Paper			2
	3	+5V	P					1
	4	GND	G			CN904	Duplex Transport Sensor 4	3
	5	RDP_CV_SN_4	I	Paper	No Paper			2
	6	+5V	P					1
	7	GND	G			CN903	Duplex Transport Sensor 3	3
	8	RDP_CV_SN_3	I	Paper	No Paper			2
	9	+5V	P					1
	10	GND	G			CN902	Duplex Transport Sensor 2	3
	11	RDP_CV_SN_2	I	Paper	No Paper			2
	12	+5V	P					1
	13	GND	G			CN901	Duplex Transport Sensor 1	3
	14	RDP_CV_SN_1	I	Paper	No Paper			2
	15	+5V	P					1
	16	GND	G			CN911	Duplex Entrance Sensor	3
	17	RDP_IN_SN	I	Paper	No Paper			2
	18	+5V	P					1
	19	GND	G			CN1092	Drawer Unit Look Sensor	3
	20	MDW_LK_SN	I					2
	21	+5V	P					1
	22	+5V	P			CN1044	Paper Edge Sensor	3
	23	EG_SN_1	I	Paper	No Paper			2
	24	GND	G					1

DUB Pin Assign Information

Connector (FROM)		Signal Information				Connector (TO)		
No	Pin No	Signal Name	Direction	L	H	No	To Connector	Pin No
CN305	1	MDU_LE_+5V	O			CN908	Drawer Unit LED	2
	2	MDU_LE	O	Off	On			1
	3	+5V	P			CN1091	Drawer Unit Lever Sensor	3
	4	MDW_HD_SN	I	Hold	Not Hold			2
	5	GND	G					1
	6	CUG_LE_+5V	O			CN938	Registration Guid Plate LED	2
	7	CUG_LE	O	Off	On			1
	8	+5V	P			CN918	Exit Guid Plate LED	2
	9	RLG_LE	O	Off	On			1
	10	N.C.	N					
	11	N.C.	N					
	12	RFG_LE_+5V	O			CN1086	Transport Guid Plate Switch	2
	13	RFG_LE	O	Off	On			1
	14	GND	G			CN934	Shift Roller HP Sensor 2	3
	15	RDP_HP_SN_2	I					2
	16	+5V	P					1
	17	GND	G			CN931	Shift Sensor HP Sensor	3
	18	CSI_HP_SN	I					2
	19	+5V	P					1
	20	GND	G			CN905	Shift Roller HP Sensor 1	3
	21	RDP_HP_SN_1	I					2
	22	+5V	P					1
	23	FFU_LE	O	Off	On	CN900	Fusing Guid Plate LED	2
	24	FFU_LE_+5V	O					1
	25	GND	G			CN908	Inverter Guid Plate LED	2
	26	RFG_OC_SN	I	Close	Open			1
CN307	1	GND	G			CN1083	Registration Upper Guide Plate Switch	2
	2	CUG_OC_SN	I	Close	Open			1
	3	GND	G			CN1079	Registration Sensor	3
	4	CRG_SN	I	Paper	No Paper			2
	5	+5V	P					1
	6	HHD_PT_SN_B	I			CN1114	By-pass Thick Paper Sensor	4
	7	+3.3V	P					3
	8	GND	G					2
	9	HHD_PT_SN_A	I					1
	10	GND	G			CN809	Main Relay Sensor	3
	11	CBU_SN	I	Paper	No Paper			2
	12	+5V	P					1
	13	CBU_PT_SN_B	I			CN1116	Main Relay Thickness Sensor	4
	14	+3.3V	P					3
	15	GND	G					2
	16	CBU_PT_SN_A	I					1
CN308	1	GND	G			CN808	Invert/Duplex Sensor	3
	2	RDP_RV_SN	I	Paper	No Paper			2
	3	+5V	P					1
	4	GND	G			CN883	Purged Paper Sensor	3
	5	CPG_RY_SN	I	Paper	No Paper			2
	6	+5V	P					1
	7	GND	G			CN1084	Fusin Exid Guid Plate Sensor	3
	8	FOU_OC_SN	I	Close	Open			2
	9	+5V	P					1
	10	EUG_LE	O	Off	On	CN918	Exid Upper Guid Plate LED	2
	11	EUG_LE_+5V	O					1
	12	GND	G			CN1062	Paper Exit Relay Sensor	3
	13	EEX_RY_SN	I	Paper	No Paper			2
	14	+5V	P					1
	15	GND	G			CN1066	Paper Exit Sensor	3
	16	EEX_SN	I	Paper	No Paper			2
	17	+5V	P					1
	18	GND	G			CN1065	Paper Exit Inverter Sensor	3
	19	EEX_RV_SN	I	Paper	No Paper			2
	20	+5V	P					1
	21	GND	G			CN1064	Inverter Entrance Sensor	3
	22	RRV_IN_SN	I	Paper	No Paper			2
	23	+5V	P					1
	24	GND	G			CN1063	Inverter Exit Sensor	3
	25	RRV_OU_SN	I	Paper	No Paper			2
	26	+5V	P					1
	27	GND	G			CN1067	Inverter Entrance Junction Gate HP Sensor	3
	28	RRV_DV_HP_SN	I					2
	29	+5V	P					1
	30	GND	G			CN1088	Exit Guid Plate Switch (Upper)	2
	31	EUG_OC_SN	I	Close	Open			1
	32	GND	G			CN1087	Exit Guid Plate Switch (Left)	2
	33	RLG_OC_SN	I	Close	Open			1
	34	N.C.	N					
CN309	1	+24VS	P			CN340	FDB-D	16
	2	+24VS	P					15
	3	GND	G					14
	4	FDB_ST_SN	I	Set	Not Set			13
	5	+5V	P					12
	6	FWB_CA_MT_CLK	O					11
	7	FWB_CA_MT_FR	O					10
	8	FWB_CA_MT_EN	O					9
	9	FWB_CA_MT_CC	O					8
	10	FWB_CE_MT_A_FDB	O					7
	11	FWB_CE_MT_A-_FDB	O					6
	12	FWB_CE_MT_B_FDB	O					5
	13	FWB_CE_MT_B-_FDB	O					4
	14	FWB_ED_SN	I	Web Remain	No Web			3
	15	FWB_CA_SN	I					2
	16	FWB_ST_SN	I	Set	Not Set			1
	17	N.C.	N					

TDRB Pin Assign Information

Connector (FROM)		Signal Information				Connector (TO)		
No	Pin No	Signal Name	Direction	L	H	No	To Connector	Pin No
CN362	A1	N.C.	N					
	A2	LED_ON_TM	O			CN740	ITB Drive Roller Encoder 1	
	A3	GND	G					4
	A4	TM_ENC0	I					3
	A5	+5V	P					
	A6	LED_ON_TM	O			CN741	ITB Drive Roller Encoder 2	
	A7	GND	G					
	A8	TM_ENC1	I					2
	A9	+5V	P					1
	B1	N.C.	N					
	B2	TM_PH_U	O			CN742	ITB Drive Motor	6
	B3	TM_PH_V	O					7
	B4	TM_PH_W	O					8
	B5	GND	G					5
	B6	TM_HOLE_W_I	I					4
	B7	TM_HOLE_V_I	I					3
	B8	TM_HOLE_U_I	I					2
	B9	+5V	P					1
CN363	1	+5V	P			CN443L	PSU-FW	5
	2	GND	G			CN445R	PSU-ECO	4
	3	+24VS_C1	P					5
CN364	1	TM_PWM	I			CN216	IOB	15
	2	TM_ON	I					14
	3	TM_FR	I					13
	4	TM_BRK	I					12
	5	TM_ENC0	O					11
	6	N.C.	N					
	7	TM_ENC1	I			CN216		10
	8	N.C.	N.C.					
	9	N.C.	N.C.					
	10	N.C.	N.C.					
	11	N.C.	N.C.					
	12	N.C.	N.C.					
	13	TFB_SUB	O			CN216		9
	14	N.C.	N					
	15	N.C.	N					
	16	N.C.	N					
	17	TUNIT_SET	O			CN216		8
	18	1T_RTCT_SENS	O					7
	19	RESET_STM1_I	I					6
CN366	A1	N.C.	N				IOB	8
	A2	2T_RTCT_HP	O			CN214		7
	A3	2T_RTCT_ER	O					6
	A4	2T_RTCT_HL	I					5
	A5	2T_RTCT_FR	I					4
	A6	2T_RTCT_EN	I					3
	A7	2T_RTCT_CLK	I					2
	A8	N.C.	N					
	A9	N.C.	N					
	A10	N.C.	N					
	A11	N.C.	N					
	A12	N.C.	N					
	A13	SENS_STC_HP	O			CN214		1
	B1	N.C.	N					
	B2	N.C.	N					
	B3	N.C.	N					
	B4	N.C.	N					
	B5	N.C.	N					
	B6	N.C.	N					
	B7	N.C.	N					
	B8	N.C.	N					
	B9	N.C.	N					
	B10	N.C.	N					
	B11	N.C.	N					
	B12	N.C.	N					
	B13	N.C.	N					
CN368	1	N.C.	N					
	2	N.C.	N					
	3	N.C.	N					
	4	N.C.	N					
	5	N.C.	N					
	6	N.C.	N					
	7	N.C.	N					
	8	N.C.	N					
	9	N.C.	N					
	10	GND	O			CN743	ITB Lift Sensor (Y, M, C)	3
	11	1T_RTCT_SENS	O					2
	12	+5V	O					1
CN369	1	+24VS_C1	P			CN899	PTR Separation Motor	6
	2	2T_RTCT_A	O					5
	3	2T_RTCT_-A	O					4
	4	+24VS_C1	P					3
	5	2T_RTCT_B	O					2
	6	2T_RTCT_-B	O					1
	7	N.C.	N					
CN370	1	N.C.						
	2	TFB_SUB	I			CN745	ITB Feedback Sensor	2
	3	N.C.	N					
	4	N.C.	N					
	5	N.C.	N					
	6	N.C.	N					
	7	N.C.	N					
	8	GND	G			CN745	ITB Feedback Sensor	3
	9	+5V	P					1
	10	GND	G			CN746	PTR Separation Sensor	3
	11	2T_RTCT_HP	I					2
	12	+5V	P					1
	13	N.C.	N					
	14	N.C.	N					

TSB Pin Assign Information

Connector (FROM)		Signal Information				Connector (TO)		
No	Pin No	Signal Name	Direction	L	H	No	To Connector	Pin No
CN322	1	GND	G			CN211	IOB	11
	2	GND	G					10
	3	IOB_RST	I					9
	4	GND	G					8
	5	TAGSCL	I					7
	6	TAGSDA	B					6
	7	GND	G					5
	8	IOB_TXD	O					4
	9	IOB_RXD	I					3
	10	NSP_OC_SW	I	Close	Open			2
	11	TAG_VCC	I					1
CN323	1	TAGSCL	O			CN1028	Toner Bottle Detection Board (Y)	4
	2	GND	G					3
	3	TAGSDA	B					2
	4	TAG_VCC	P					1
	5	GND	G			CN1027	Toner End Sensor (Y)	3
	6	NTN_ED_SN_Y	I	End	Not end			2
	7	+5V	P					1
	8	TAGSCL	O			CN1028	Toner Bottle Detection Board (M)	4
	9	GND	G					3
	10	TAGSDA	B					2
	11	TAG_VCC	P					1
	12	GND	G			CN1027	Toner End Sensor (M)	3
	13	NTN_ED_SN_M	I	End	Not end			2
	14	+5V	P					1
	15	N.C.	N					
	16	N.C.	N					
	17	N.C.	N					
	18	+24V	P			CN967	ITB Cleaning Fan	3
	19	TCL_SF_FN_LK	I	Normal	Error			2
	20	TCL_SF_FN	O	Off	On			1
	21	TAGSCL	O			CN1028	Toner Bottle Detection Board (C)	4
	22	GND	G					3
	23	TAGSDA	B					2
	24	TAG_VCC	P					1
	25	GND	G			CN1027	Toner End Sensor (C)	3
	26	NTN_ED_SN_C	I	End	Not End			2
	27	+5V	P					1
	28	TAGSCL	O			CN1028	Toner Bottle Detection Board (K)	4
	29	GND	G					3
	30	TAGSDA	B					2
	31	TAG_VCC	P					1
	32	GND	G			CN1027	Toner End Sensor (K)	3
	33	NTN_ED_SN_K	I	End	Not End			2
	34	+5V	P					1
	35	GND	G			CN760	ITB Cleaning Unit Set Sensor	3
	36	TCL_ST_SN	I	Not Set	Set			2
	37	+5V	P					1
	38	N.C.	N					
	39	N.C.	N					
	40	N.C.	N					
CN324	1	NSP_DR_MT_Y_A	O	Disable	Enable	CN1012	Toner Supply Motor (Y)	4
	2	NSP_DR_MT_Y_A-	O	Disable	Enable			3
	3	NSP_DR_MT_Y_B	O	Disable	Enable			2
	4	NSP_DR_MT_Y_B-	O	Disable	Enable			1
	5	+24V	P			CN1013	Development Unit Intake Fan (Y)	3
	6	ODV_SF_FN_Y_ERR	I	Error	Normal			2
	7	ODV_SF_FN_Y	O	Off	On			1
	8	NSP_DR_MT_M_A	O	Disable	Enable	CN1014	Toner Supply Motor (M)	4
	9	NSP_DR_MT_M_A-	O	Disable	Enable			3
	10	NSP_DR_MT_M_B	O	Disable	Enable			2
	11	NSP_DR_MT_M_B-	O	Disable	Enable			1
	12	+24V	P			CN1015	Development Unit Intake Fan (M)	3
	13	ODV_SF_FN_M_ERR	I	Error	Normal			2
	14	ODV_SF_FN_M	O	Off	On			1
	15	NSP_DR_MT_C_A	O	Disable	Enable	CN1016	Toner Supply Motor (C)	4
	16	NSP_DR_MT_C_A-	O	Disable	Enable			3
	17	NSP_DR_MT_C_B	O	Disable	Enable			2
	18	NSP_DR_MT_C_B-	O	Disable	Enable			1
	19	+24V	P			CN1017	Development Unit Intake Fan (C)	3
	20	ODV_SF_FN_C_ERR	I	Error	Normal			2
	21	ODV_SF_FN_C	O	Off	On			1
	22	NSP_DR_MT_K_A	O	Disable	Enable	CN1018	Toner Supply Motor (K)	4
	23	NSP_DR_MT_K_A-	O	Disable	Enable			3
	24	NSP_DR_MT_K_B	O	Disable	Enable			2
	25	NSP_DR_MT_K_B-	O	Disable	Enable			1
	26	+24V	P			CN1019	Development Unit Intake Fan (K)	3
	27	ODV_SF_FN_K_ERR	I	Error	Normal			2
	28	ODV_SF_FN_K	O	Off	On			1
CN325	1	NTB_DR_MT_Y	O	Disable	Enable	CN1020	Toner Bottle Motor (Y)	2
	2	+24VS_TSB	P					1
	3	NTB_DR_MT_M	O	Disable	Enable	CN1021	Toner Bottle Motor (M)	2
	4	+24VS_TSB	P					1
	5	NTB_DR_MT_C	O	Disable	Enable	CN1022	Toner Bottle Motor (C)	2
	6	+24VS_TSB	P					1
	7	NTB_DR_MT_K	O	Disable	Enable	CN1023	Toner Bottle Motor (K)	2
	8	+24VS_TSB	P					1

FDB-M Pin Assign Information

Connector (FROM)		Signal Information				Connector (TO)		
No	Pin No	Signal Name	Direction	L	H	No	To Connector	Pin No
CN340	1	N.C.	N					
	2	N.C.	N					
	3	N.C.	N					
	4	N.C.	N					
	5	N.C.	N					
	6	N.C.	N					
	7	N.C.	N					
	8	CA_MT_CC_I	I			CN219	I/OB	28
	9	CA_MT_EN_I	I					27
	10	CA_MT_FR_I	I					26
	11	CA_MT_CLK_I	I					25
	12	+5V	P					24
	13	GND	G					23
	14	GND	G					22
	15	+24VS	P					21
	16	+24VS	P					20
CN341	1	CA_MT_A	O			CN1096	Fusing Belt Smoothing Roller Contact Motor (D137/D138 only)	4
	2	CA_MT_A-	O					3
	3	CA_MT_B-	O					2
	4	CA_MT_B	O					1

FDB-D Pin Assign Information (D137/D138 only)

Connector (FROM)		Signal Information				Connector (TO)		
No	Pin No	Signal Name	Direction	L	H	No	To Connector	Pin No
CN340	1	FWB_ST_SN	O			CN309	DUB	16
	2	FWB_CA_SN	O					15
	3	FWB_ED_SN	O					14
	4	FWB_CE_MT_B-_I	I					13
	5	FWB_CE_MT_B_I	I					12
	6	FWB_CE_MT_A-_I	I					11
	7	FWB_CE_MT_A_I	I					10
	8	CA_MT_CC_I	I					9
	9	CA_MT_EN_I	I					8
	10	CA_MT_FR_I	I					7
	11	CA_MT_CLK_I	I					6
	12	+5V	P					5
	13	GND	G					4
	14	GND	G					3
	15	+24VS	P					2
	16	+24VS	P					1
CN341	1	CA_MT_A	O			CN1078	Web Unit Separation Motor (D137/D138 only)	4
	2	CA_MT_A-	O					3
	3	CA_MT_B-	O					2
	4	CA_MT_B	O					1
CN342	1	+24VS	P			CN924	Web Motor (D137/D138 only)	5
	2	FWB_CE_MT_A	O					4
	3	FWB_CE_MT_A-	O					3
	4	FWB_CE_MT_B	O					2
	5	FWB_CE_MT_B-	O					1
CN343	1	GND	G			CN909	Web End Sensor (D137/D138 only)	3
	2	FWB_ED_SN	I					2
	3	+5V	P					1
	4	GND	G			CN1095	Web Unit Separation Sensor (D137/D138 only)	3
	5	FWB_CA_SN	I					2
	6	+5V	P					1
	7	GND	G			CN1096	Web Unit Sensor (D137/D138 only)	3
	8	FWB_ST_SN	I					2
	9	+5V	P					1

OKB Pin Assign Information

Connector (FROM)		Signal Information				Connector (TO)		
No	Pin No	Signal Name	Direction	L	H	No	To Connector	Pin No
CN1	1	GND	G			CN232	IOB	
	2	N.C.	-					
	3	N.C.	-					
	4	+5V	P					
CN2	1	FAN_CTL	I			CN209	IOB	36
	2	FAN_LK	O					35
	3	24VS	P					34
CN337	1	N.C.	-			CN272	PFB	20
	2	HTEMP_DETECT	O					19
	3	N.C.	-					18
CN338	1	TH	I			CN1138	Waste Toner Transport Thermistor	
	2	GND	G					
	3	+24VS	P			CN948	ID Sensor Cleaning Fan	
	4	P_FAN_LK	I					
	5	FAN_CTL	O					
	6	+24VS	P			CN1055	ITB Motor Cooling Fan	
	7	AD_FAN_LK	I					
	8	FAN_CTL	O					

IPU Pin Assign Information

Connector (FROM)		Signal Information				Connector (TO)		
No	Pin No	Signal Name	Direction	L	H	No	To Connector	Pin No
CN563	1	+5V	P			CN593	IPU-SUB	1
	2	+5V	P					2
	3	+5V	P					3
	4	GND	G					4
	5	GND	G					5
	6	SH_GRANT_N	O					6
	7	SH_B_14	I					7
	8	SH_B_12	I					8
	9	SH_B_10	I					9
	10	SH_B_8	I					10
	11	SH_B_6	I					11
	12	SH_B_4	I					12
	13	SH_B_2	I					13
	14	SH_B_0	I					14
	15	SH_G_14	I					15
	16	SH_G_12	I					16
	17	SH_G_10	I					17
	18	SH_G_8	I					18
	19	SH_G_6	I					19
	20	SH_G_4	I					20
	21	SH_G_2	I					21
	22	SH_G_0	I					22
	23	SH_R_14	I					23
	24	SH_R_12	I					24
	25	SH_R_10	I					25
	26	SH_R_8	I					26
	27	SH_R_6	I					27
	28	SH_R_4	I					28
	29	SH_R_2	I					29
	30	SH_R_0	I					30
	31	GND	G					31
	32	SBU_CLK90_B2A	O					32
	33	GND	G					33
	34	SBU_CLK90_A2B	I					34
	35	GND	G					35
	36	IPU_D(31)	I/O					36
	37	IPU_D(29)	I/O					37
	38	IPU_D(27)	I/O					38
	39	IPU_D(25)	I/O					39
	40	IPU_D(23)	I/O					40
	41	IPU_D(21)	I/O					41
	42	IPU_D(19)	I/O					42
	43	IPU_D(17)	I/O					43
	44	IPU_A(13)	O					44
	45	IPU_A(11)	O					45
	46	IPU_A(9)	O					46
	47	IPU_A(7)	O					47
	48	IPU_A(5)	O					48
	49	IPU_A(3)	O					49
	50	IPU_A(1)	O					50
	51	ANDER_RDS_N	O					51
	52	ANDER_CS_N	O					52
	53	ANDER_IRQ_N	I					53
	54	PORT1_ANDER	I/O					54
	55	PORT0_ANDER	O					55
	56	RESERVE_1	G					56
	57	SYDO	O					57
	58	SYCS_N	O					58
	59	GND	G					59
	60	+3.3V	P					60
	61	+3.3V	P					61
	62	GND	G					62
	63	RESERVE_2	G					63
	64	SYCLK	O					64
	65	SYDI_ANDER	I					65
	66	RESERVE_3	G					66
	67	ANDER_SET_N	I					67
	68	SBU_SHGATE_N	O					68
	69	SBU_SFGATE_N	O					69
	70	S2M_RST_N	O					70
	71	ANDER_WRS_N	O					71
	72	IPU_A(2)	O					72
	73	IPU_A(4)	O					73
	74	IPU_A(6)	O					74
	75	IPU_A(8)	O					75
	76	IPU_A(10)	O					76
	77	IPU_A(12)	O					77
	78	IPU_D(16)	I/O					78
	79	IPU_D(18)	I/O					79
	80	IPU_D(20)	I/O					80
	81	IPU_D(22)	I/O					81
	82	IPU_D(24)	I/O					82
	83	IPU_D(26)	I/O					83
	84	IPU_D(28)	I/O					84
	85	IPU_D(30)	I/O					85
	86	PGOOD_A	I					86
	87	PON_SEQ_N	O					87
	88	GND	G					88
	89	ANDER_SLSYNC_N	I					89
	90	ANDER_SFGATE_N	I					90
	91	GND	G					91
	92	SH_R_1	I					92
	93	SH_R_3	I					93
	94	SH_R_5	I					94
	95	SH_R_7	I					95
	96	SH_R_9	I					96
	97	SH_R_11	I					97
	98	SH_R_13	I					98
	99	SH_R_15	I					99
	100	SH_G_1	I					100
	101	SH_G_3	I					101
	102	SH_G_5	I					102
	103	SH_G_7	I					103
	104	SH_G_9	I					104
	105	SH_G_11	I					105
	106	SH_G_13	I					106
	107	SH_G_15	I					107
	108	SH_B_1	I					108
	109	SH_B_3	I					109
	110	SH_B_5	I					110
	111	SH_B_7	I					111
	112	SH_B_9	I					112
	113	SH_B_11	I					113
	114	SH_B_13	I					114
	115	SH_B_15	I					115
	116	GND	G					116
	117	GND	G					117
	118	+5V	P					118
	119	+5V	P					119
	120	+5V	P					120

IPU Pin Assign Information

Connector (FROM)		Signal Information				Connector (TO)		
No	Pin No	Signal Name	Direction	L	H	No	To Connector	Pin No
CN573	1	24V	P			CN573	Controller Board	1
	2	N.C.	N					2
	3	GND	G					3
	4	GND	G					4
	5	ACSWON_N	O					5
	6	OPE_LED_N	O					6
	7	GND	G					7
	8	REFCLK1_P	I					8
	9	REFCLK1_N	I					9
	10	GND	G					10
	11	REFCLK0_P	I					11
	12	REFCLK0_N	I					12
	13	GND	G					13
	14	PET0_P	I					14
	15	PET0_M	I					15
	16	GND	G					16
	17	PER0_P	O					17
	18	PER0_M	O					18
	19	GND	G					19
	20	PET1_P	I					20
	21	PET1_M	I					21
	22	GND	G					22
	23	PER1_P	O					23
	24	PER1_M	O					24
	25	GND	G					25
	26	PET2_P	I					26
	27	PET2_M	I					27
	28	GND	G					28
	29	PER2_P	O					29
	30	PER2_M	O					30
	31	GND	G					31
	32	PET3_P	I					32
	33	PET3_M	I					33
	34	GND	G					34
	35	PER3_P	O					35
	36	PER3_M	O					36
	37	GND	G					37
	38	PERST_N	I					38
	39	GND	G					39
	40	RECN_DC_N	I					40
	41	TIMER_UP1_N	I					41
	42	GND	G					42
	43	GND	G					43
	44	GND	G					44
	45	GND	G					45
	46	GND	G					46
	47	PETXD	I					47
	48	PERXD	O					48
	49	GND	G					49
	50	TIMER_UP0_N	I					50
	51	ENG_ENABLE_N	I					51
	52	GND	G					52
	53	PONSNS_N0	I					53
	54	ENGRDY1_N	O					54
	55	GND	G					55
	56	PW_SW_N	O					56
	57	WKUP_L_N	O					57
	58	WKUP_E	O					58
	59	VDET_EPCI	O					59
	60	PONENG_N_PSU	I					60
	61	GND	G					61
	62	POKUSB	I					62
	63	SDMODE_N	O					63
	64	GND	G					64
	65	OPE_USB_P	I/O					65
	66	OPE_USB_M	I/O					66
	67	GND	G					67
	68	PONOPE_N	O					68
	69	POKOPE	I					69
	70	GND	G					70
	71	5V	P					71
	72	N.C.	N					72
	73	GND	G					73
	74	GND	G					74
	75	GND	G					75
	76	GND	G					76
	77	GND	G					77
	78	N.C.	N					78
	79	5VE	P					79
	80	5VE	P					80
	81	5VE	P					81
	82	5VE	P					82
	83	5VE	P					83
	84	5VE	P					84
	85	5VE	P					85
	86	5VE	P					86
	87	5VE	P					87
	88	5VE	P					88
	89	5VE	P					89
	90	5VE	P					90
	91	5VE	P					91
	92	5VE	P					92
	93	5VE	P					93
	94	5VE	P					94
	95	5VE	P					95
	96	5VE	P					96
	97	5VE	P					97
	98	5VE	P					98
	99	5VE	P					99
	100	5VE	P					100
	101	5VE	P					101
	102	5VE	P					102
	103	5VE	P					103
	104	5VE	P					104
	105	5VE	P					105
	106	5VE	P					106
	107	N.C.	N					107
	108	GND	G					108
	109	GND	G					109
	110	GND	G					110
	111	N.C.	N					111
	112	12V	P					112
	113	12V	P					113
	114	12V	P					114
	115	12V	P					115
	116	12V	P					116
	117	12V	P					117
	118	12V	P					118
	119	12V	P					119
	120	12V	P					120
	121	12V	P					121
	122	12V	P					122
	123	12V	P					123
	124	12V	P					124
	125	N.C.	N					125
	126	GND	G					126
	127	OP2_TCLK	I					127
	128	OP2_TXD	I					128
	129	OP2_REQ	O					129
	130	OP2_RCLK	I					130
	131	OP2_RXD	O					131
	132	GND	G					132
	133	PON_VEPCNV_N	O					133
	134	OPE_CTLERR_N	O					134
	135	VXCNV_LV_N	O					135
	136	VEPCNV_RDY_N	I					136
	137	LDET_IN_N	I					137
	138	FUKKI	O					138
	139	LDET_ACSWOFF_N	O					139
	140	GND	G					140

IPU Pin Assign Information

Connector (FROM)		Signal Information				Connector (TO)		
No	Pin No	Signal Name	Direction	L	H	No	To Connector	Pin No
CN574	1	FFC_SET	O			CN100	BCU	50
	2	GND	G					49
	3	IPU_RD_WR_N	I					48
	4	IPU_RD_N	I					47
	5	IPU_WS_N	I					46
	6	IPU0_CS_N	I					45
	7	IPU1_CS_N	I					44
	8	IPU2_CS_N	I					43
	9	IPU3_CS_N	I					42
	10	IPU4_CS_N	I					41
	11	GND	G					40
	12	IPU_D(16)	I/O					39
	13	IPU_D(17)	I/O					38
	14	IPU_D(18)	I/O					37
	15	IPU_D(19)	I/O					36
	16	IPU_D(20)	I/O					35
	17	IPU_D(21)	I/O					34
	18	IPU_D(22)	I/O					33
	19	IPU_D(23)	I/O					32
	20	GND	G					31
	21	IPU_D(24)	I/O					30
	22	IPU_D(25)	I/O					29
	23	IPU_D(26)	I/O					28
	24	IPU_D(27)	I/O					27
	25	IPU_D(28)	I/O					26
	26	IPU_D(29)	I/O					25
	27	IPU_D(30)	I/O					24
	28	IPU_D(31)	I/O					23
	29	GND	G					22
	30	IPU_A(1)	I					21
	31	IPU_A(2)	I					20
	32	IPU_A(3)	I					19
	33	IPU_A(4)	I					18
	34	IPU_A(5)	I					17
	35	IPU_A(6)	I					16
	36	IPU_A(7)	I					15
	37	IPU_A(8)	I					14
	38	IPU_A(9)	I					13
	39	GND	G					12
	40	IPU_A(10)	I					11
	41	IPU_A(11)	I					10
	42	IPU_A(12)	I					9
	43	IPU_A(13)	I					8
	44	IPU_A(14)	I					7
	45	IPU_A(15)	I					6
	46	IPU_A(16)	I					5
	47	IPU_A(17)	I					4
	48	IPU_A(18)	I					3
	49	GND	G					2
	50	FB_FFC_SET	I					1
CN595	1	IPU_WAKE	O			CN101	BCU	22
	2	FUKKI	O					21
	3	ENGENABLE_N	O					20
	4	TIMER_UP_N1	O					19
	5	TIMER_UP_N0	O					18
	6	IPU_INT_N	O					17
	7	ADF_RXD	O					16
	8	ADF_TXD	I					15
	9	G2_SYCS0_N	I					14
	10	G2_SYCLK	I					13
	11	S2M_RST_N	I					12
	12	M2P_RST_N	I					11
	13	G2_SYDI	O					10
	14	G2_SYDO	I					9
	15	G1_SYCS1_N	I					8
	16	G1_SYCS0_N	I					7
	17	G1_SYHS	I					6
	18	G1_SYCLK	I					5
	19	G1_SYDI	O					4
	20	G1_SYDO	I					3
	21	5V	P					2
	22	GND	G					1
CN576	1	5V	P			CN443L	PSU-FW	1
	2	5VE	P			CN442R	PSU-ECO	2
	3	5VE	P					1
	4	GND	G			CN443L	PSU-FW	2
	5	GND	G			CN442R	PSU-ECO	4
	6	GND	G					3
CN589	1	ACSW_STAT_ON_N_ACSW	I			CN995	Main Switch	
	2	GND	I					
CN596	1	PONENG1_N	O			CN412	AC Drive Board	6
	2	N.C.	N					5
	3	GND	G					4
	4	PON_VEPCNV_N	O					3
	5	VECNV_LV_N	O					2
	6	VEPCNV_RDY_N	I					1
CN578	1	GND	G			CN209	IOB	18
	2	24VS2	P					17
	3	24VS1	P					16
	4	GND	G					15
	5	GND	G					14
	6	GND	G					13
	7	24V	P					12
	8	24V	P					11
	9	N.C.	N					
	10	N.C.	N					
CN579	1	HPS_N	I			CN372	SIO	11
	2	SMD_VR3	O					10
	3	SMD_VR2	O					9
	4	SMD_VR1	O					8
	5	SMD_RST	O					7
	6	SMD_DIR	O					6
	7	SMD_CLK_N	O					5
	8	SMD_M2	O					4
	9	SMD_M1	O					3
	10	SMD_SYNC	O					2
	11	N.C.	N					
	12	DFGATE_N	I			CN208	IOB	4
	13	ADF_TXD	O					3
	14	ADF_RXD	I					2
	15	ADF_POW_ON_N	O					1
	16	5VE_AKS	P			CN228	IOB	4
	17	AKS	I					3
	18	5VE_DOC	P					2
	19	DOCSET_N	I					1
	20	APS1_N	I			CN372	SIO	22
	21	APS2_N	I					21
	22	APS3_N	I					20
	23	APS4_N	I					19
	24	APS5_N	I					18
	25	APS_ON_N	O					17
	26	GND	G					16
	27	LED_ON_N	O					15
	28	LED_ERR	I					14
	29	GND	G					13
	30	SCN_POW_ON_N	O					12
CN580	1	5VE_LPS	P			CN1	MKB	6
	2	5VE_LPS	P					5
	3	PETXD	O					4
	4	PERXD	I					3
	5	GND	G					2
	6	GND	G					1

IPU Pin Assign Information

Connector (FROM)		Signal Information				Connector (TO)		
No	Pin No	Signal Name	Direction	L	H	No	To Connector	Pin No
CN567	1	TX_DATA_K_M	O			CN494	LD Board (C,K)	1
	2	TX_DATA_K_P	O					2
	3	GND	G					3
	4	TX_DATA_C_M	O					4
	5	TX_DATA_C_P	O					5
CN568	1	Magenta : DATA -	O			CN494	LD Board (Y,M)	1
	2	Magenta : DATA +	O					2
	3	GND	G					3
	4	Yellow : DATA -	O					4
	5	Yellow : DATA +	O					5
CN571	1	+5VLD_KC	P			CN467	LD Board (C,K)	20
	2	+5VLD_KC	P					19
	3	+5VLD_KC	P					18
	4	GND	G					17
	5	GND	G					16
	6	GND	G					15
	7	TNCNTEND_C	I					14
	8	TNCNTEND_K	I					13
	9	VTECINT_KC	I					12
	10	VPFGATE_C_N	I					11
	11	VPFGATE_K_N	I					10
	12	VLSYNC_C_N	I					9
	13	VLSYNC_K_N	I					8
	14	VFSYNC_C_N	I					7
	15	VFSYNC_K_N	I					6
	16	STOUT_OUT_N	B					5
	17	SYCLK_KC	O					4
	18	SYCS_KC_N	O					3
	19	SYDI_KC	O					2
	20	V_SYDO_KC	I					1
	21	+5VLD_YM	P			CN469	LD Board (Y,M)	20
	22	+5VLD_YM	P					19
	23	+5VLD_YM	P					18
	24	GND	G					17
	25	GND	G					16
	26	GND	G					15
	27	TNCNTEND_Y	I					14
	28	TNCNTEND_M	I					13
	29	VTECINT_MY	I					12
	30	VPFGATE_Y_N	I					11
	31	VPFGATE_M_N	I					10
	32	VLSYNC_Y_N	I					9
	33	VLSYNC_M_N	I					8
	34	VFSYNC_Y_N	I					7
	35	VFSYNC_M_N	I					6
	36	STOUT_N	O					5
	37	SYCLK_KC	O					4
	38	SYCS_YM_N	O					3
	39	SYDI_KC	O					2
	40	V_SYDO_MY	I					1
CN572	1	+24V	O			CN478	Polygon Motor Drive Board (Y,M)	5
	2	GND	G					4
	3	PMON2_N	O					3
	4	SCRDY2_N	I					2
	5	PMCLK	O					1
	6	+24V	O			CN474	Polygon Motor Drive Board (CK)	5
	7	GND	G					4
	8	PMON1_N	O					3
	9	SCRDY1_N	I					2
	10	PMCLK	O					1

IPU-SUB Pin Assign Information

Connector (FROM)		Signal Information				Connector (TO)		
No	Pin No	Signal Name	Direction	L	H	No	To Connector	Pin No
CN591	A1	GND	G			CN361	SBU	1
	A2	F_TA-	I					3
	A3	F_TB-	I					5
	A4	F_TC-	I					7
	A5	F_LVCK-	I					9
	A6	F_TD-	I					11
	A7	F_TE-	I					13
	A8	SFGATE_N	O			CN362	SBU	15
	A9	SYDI_SBU	I					17
	A10	SYDO_SBU	O					19
	A11	GND	G					2
	A12	L_TA-	I					4
	A13	L_TB-	I					6
	A14	L_TC-	I					8
	A15	L_LVCK-	I					10
	A16	L_TD-	I					12
	A17	L_TE-	I					14
	B1	L_TE+	I					13
	B2	L_TD+	I					11
	B3	L_LVCK+	I					9
	B4	L_TC+	I					7
	B5	L_TB+	I					5
	B6	L_TA+	I					3
	B7	GND	G					1
	B8	SYCLK_SBU	O					20
	B9	XSYCS_SBU	O					18
	B10	SHGATE_N	O					16
	B11	F_TE+	I			CN361	SBU	14
	B12	F_TD+	I					12
	B13	F_LVCK+	I					10
	B14	F_TC+	I					8
	B15	F_TB+	I					6
	B16	F_TA+	I					4
	B17	GND	G					2
CN592	A1	GND	G			CN644	CIS	A1
	A2	E_SDC-	I					A2
	A3	E_SDD-	I					A3
	A4	E_SDE-	I					A4
	A5	ESCLK-	I					A5
	A6	E_SDA-	I					A6
	A7	E_SDB-	I					A7
	A8	GND	G					A8
	A9	O_SDC-	I					A9
	A10	O_SDD-	I					A10
	A11	O_SDE-	I					A11
	A12	OSCLK-	I					A12
	A13	O_SDA-	I					A13
	A14	O_SDB-	I					A14
	A15	GND	G					A15
	B1	GND	G					B1
	B2	O_SDB+	I					B2
	B3	O_SDA+	I					B3
	B4	OSCLK+	I					B4
	B5	O_SDE+	I					B5
	B6	O_SDD+	I					B6
	B7	O_SDC+	I					B7
	B8	GND	G					B8
	B9	E_SDB+	I					B9
	B10	E_SDA+	I					B10
	B11	ESCLK+	I					B11
	B12	E_SDE+	I					B12
	B13	E_SDD+	I					B13
	B14	E_SDC+	I					B14
	B15	GND	G					B15

IPU-SUB Pin Assign Information

Connector (FROM)		Signal Information				Connector (TO)		
No	Pin No	Signal Name	Direction	L	H	No	To Connector	Pin No
CN593	1	+5V	P			CN563	IPU	1
	2	+5V	P					2
	3	+5V	P					3
	4	GND	G					4
	5	GND	G					5
	6	SH_GRANT_N	I					6
	7	SH_B_14	O					7
	8	SH_B_12	O					8
	9	SH_B_10	O					9
	10	SH_B_8	O					10
	11	SH_B_6	O					11
	12	SH_B_4	O					12
	13	SH_B_2	O					13
	14	SH_B_0	O					14
	15	SH_G_14	O					15
	16	SH_G_12	O					16
	17	SH_G_10	O					17
	18	SH_G_8	O					18
	19	SH_G_6	O					19
	20	SH_G_4	O					20
	21	SH_G_2	O					21
	22	SH_G_0	O					22
	23	SH_R_14	O					23
	24	SH_R_12	O					24
	25	SH_R_10	O					25
	26	SH_R_8	O					26
	27	SH_R_6	O					27
	28	SH_R_4	O					28
	29	SH_R_2	O					29
	30	SH_R_0	O					30
	31	GND	G					31
	32	SBU_CLK90_B2A	I					32
	33	GND	G					33
	34	SBU_CLK90_A2B	O					34
	35	GND	G					35
	36	IPU_D(31)	I/O					36
	37	IPU_D(29)	I/O					37
	38	IPU_D(27)	I/O					38
	39	IPU_D(25)	I/O					39
	40	IPU_D(23)	I/O					40
	41	IPU_D(21)	I/O					41
	42	IPU_D(19)	I/O					42
	43	IPU_D(17)	I/O					43
	44	IPU_D(13)	I					44
	45	IPU_D(11)	I					45
	46	IPU_D(9)	I					46
	47	IPU_D(7)	I					47
	48	IPU_D(5)	I					48
	49	IPU_D(3)	I					49
	50	IPU_D(1)	I					50
	51	ANDER_RDS_N	I					51
	52	ANDER_CS_N	I					52
	53	ANDER_IRQ_N	O					53
	54	PORT1_ANDER	I/O					54
	55	PORT0_ANDER	I/O					55
	56	RESERVE_1	-					56
	57	SYDO	I					57
	58	SYCS_N	I					58
	59	GND	G					59
	60	+3.3V	P					60
	61	+3.3V	P					61
	62	GND	G					62
	63	RESERVE_2	-					63
	64	SYCLK	I					64
	65	SYDI_ANDER	O					65
	66	RESERVE_3	-					66
	67	RESERVE_4	-					67
	68	SBU_SHGATE_N	I					68
	69	SBU_SFGATE_N	I					69
	70	SZM_RST_N	I					70
	71	ANDER_WRS_N	I					71
	72	IPU_A(2)	I					72
	73	IPU_A(4)	I					73
	74	IPU_A(6)	I					74
	75	IPU_A(8)	I					75
	76	IPU_A(10)	I					76
	77	IPU_A(12)	I					77
	78	IPU_A(16)	I/O					78
	79	IPU_A(18)	I/O					79
	80	IPU_A(20)	I/O					80
	81	IPU_A(22)	I/O					81
	82	IPU_A(24)	I/O					82
	83	IPU_A(26)	I/O					83
	84	IPU_A(28)	I/O					84
	85	IPU_A(30)	I/O					85
	86	PGOOD_A	O					86
	87	PON_SEQ_N	I					87
	88	GND	G					88
	89	ANDER_SLSYNC_N	O					89
	90	ANDER_SFGATE_N	O					90
	91	GND	G					91
	92	SH_R1	O					92
	93	SH_R3	O					93
	94	SH_R5	O					94
	95	SH_R7	O					95
	96	SH_R9	O					96
	97	SH_R11	O					97
	98	SH_R13	O					98
	99	SH_R15	O					99
	100	SH_G1	O					100
	101	SH_G3	O					101
	102	SH_G5	O					102
	103	SH_G7	O					103
	104	SH_G9	O					104
	105	SH_G11	O					105
	106	SH_G13	O					106
	107	SH_G15	O					107
	108	SH_B1	O					108
	109	SH_B3	O					109
	110	SH_B5	O					110
	111	SH_B7	O					111
	112	SH_B9	O					112
	113	SH_B11	O					113
	114	SH_B13	O					114
	115	SH_B15	O					115
	116	GND	G					116
	117	GND	G					117
	118	+5V	P					118
	119	+5V	P					119
	120	+5V	P					120

SBU Pin Assign Information

Connector (FROM)		Signal Information				Connector (TO)		
No	Pin No	Signal Name	Direction	L	H	No	To Connector	Pin No
CN361	1	GND	G			CN591	IPU-SUB	A1
	2	GND	G					B17
	3	F_TA-	O					A2
	4	F_TA+	O					B16
	5	F_TB-	O					A3
	6	F_TB+	O					B15
	7	F_TC-	O					A4
	8	F_TC+	O					B14
	9	F_LVCK-	O					A5
	10	F_LVCK+	O					B13
	11	F_TD-	O					A6
	12	F_TD+	O					B12
	13	F_TE-	O					A7
	14	F_TE+	O					B11
CN362	1	GND	G			CN591	IPU-SUB	A11
	2	GND	G					B7
	3	L_TA-	O					A12
	4	L_TA+	O					B6
	5	L_TB-	O					A13
	6	L_TB+	O					B5
	7	L_TC-	O					A14
	8	L_TC+	O					B4
	9	L_LVCK-	O					A15
	10	L_LVCK+	O					B3
	11	L_TD-	O					A16
	12	L_TD+	O					B2
	13	L_TE-	O					A17
	14	L_TE+	O					B1
	15	SFGATE_N	I					A8
	16	SHGATE_N	I					B10
	17	SYDI_SBU	O					A9
	18	XSYCS_SBU	I					B9
	19	SYDO_SBU	I					A10
	20	SYCLK_SBU	I					B8

SIO Pin Assign Information

Connector (FROM)		Signal Information				Connector (TO)		
No	Pin No	Signal Name	Direction	L	H	No	To Connector	Pin No
CN370	1	GND	G			CN444L	PSU-FW	5
	2	GND	G					6
	3	24V	P					1
	4	24V	P					2
CN371	1	/A	I			CN1	Scanner Motor	6
	2	+24VAM	O					5
	3	A	I					4
	4	B	I					3
	5	+24VAM	O					2
	6	/B	I					1
CN372	1	GND	G			CN579	IPU	
	2	SMD_SYNC	I					10
	3	SMD_M1	I					9
	4	SMD_M2	I					8
	5	SMD_CLK	I					7
	6	SMD_DIR	I					6
	7	SMD_RST	I					5
	8	SMD_VR1	I					4
	9	SMD_VR2	I					3
	10	SMD_VR3	I					2
	11	HPS_N	O					1
	12	SCN_POW_ON_N	I					30
	13	GND	G					29
	14	LED1_ERR	O					28
	15	LED1_ON_N	I					27
	16	GND	G					26
	17	APS_ON_N	I					25
	18	APS5_N	O					24
	19	APS4_N	O					23
	20	APS3_N	O					22
	21	APS2_N	O					21
	22	APS1_N	O					20
CN374	1	LED_PWM	I			CN363	SBU	13
	2	GND	G					12
	3	GND	G					11
	4	+3.3V	P					10
	5	+3.3V	P					9
	6	+3.3V	P					8
	7	GND	G					7
	8	GND	G					6
	9	+5.9V	P					5
	10	+5.9V	P					4
	11	GND	G					3
	12	+10V	P					2
	13	GND	G					1
CN375	1	GND	G			CN1	Scanner HP Sensor	3
	2	HPS_S	I					2
	3	+5V	P					1
	4	GND	G			CN3	APS Sensor 1	3
	5	APS1_N	I					2
	6	+5VAPS	O					1
	7	GND	G			CN2	APS Sensor 2	3
	8	APS2_N	I					2
	9	+5VAPS	O					1
	10	+24V	P			CN351	IDB	5
	11	LED_PWM	O					4
	12	GND	G					3
	13	LED1_ON_N	O					2
	14	LED1_ERR	I					1

IDB Pin Assign Information

Connector (FROM)		Signal Information				Connector (TO)		
No	Pin No	Signal Name	Direction	L	H	No	To Connector	Pin No
CN351	1	LED_ERR	O			CN375	SIO	14
	2	LED_ON_N	I					13
	3	GND	G					12
	4	LED_PWM	I					11
	5	+24V	P					10
CN352	1	GND	G			CN350	Scanner Lamp (LED)	1
	2	LED_6	I					2
	3	LED_5	I					3
	4	LED_4	I					4
	5	V_LED	P					5
	6	V_LED	P					6
	7	LED_3	I					7
	8	LED_2	I					8
	9	LED_1	I					9
	10	GND	G					10

Controller Board Pin Assign Information

Connector (FROM)		Signal Information				Connector (TO)		
No	Pin No	Signal Name	Direction	L	H	No	To Connector	Pin No
CN500	1	24V	PI			CN573	IPU	1
	2	space(:N.C.)	N					2
	3	GND	G					3
	4	GND	G					4
	5	ACSW_STAT_ON_N/PW_BTN_N	I					5
	6	Reserve(WAKE_N)	N					6
	7	GND	G					7
	8	REFCLK1_P	O					8
	9	REFCLK1_M	O					9
	10	GND	G					10
	11	REFCLK0_P	O					11
	12	REFCLK0_M	O					12
	13	GND	G					13
	14	PET0_P	O					14
	15	PET0_M	O					15
	16	GND	G					16
	17	PER0_P	I					17
	18	PER0_M	I					18
	19	GND	G					19
	20	PET1_P	O					20
	21	PET1_M	O					21
	22	GND	G					22
	23	PER1_P	I					23
	24	PER1_M	I					24
	25	GND	G					25
	26	PET2_P	O					26
	27	PET2_M	O					27
	28	GND	G					28
	29	PER2_P	I					29
	30	PER2_M	I					30
	31	GND	G					31
	32	PET3_P	O					32
	33	PET3_M	O					33
	34	GND	G					34
	35	PER3_P	I					35
	36	PER3_M	I					36
	37	GND	G					37
	38	PERST_N	O					38
	39	GND	G					39
	40	REON_DC_N/ACSWOFF	O					40
	41	TIMER_UP1_N	O					41
	42	GND	G					42
	43	GND	G					43
	44	GND	G					44
	45	GND	G					45
	46	GND	G					46
	47	PETXD	O					47
	48	PERXD	I					48
	49	GND	G					49
	50	TIMER_UP0_N	O					50
	51	ENG_ENABLE_N	O					51
	52	GND	G					52
	53	PONSENS0_N	O					53
	54	ENGRDY1_N	I					54
	55	GND	G					55
	56	ECO_SW_N/PW_SW_N	I					56
	57	WKUP_L_N	I					57
	58	WKUP_E	I					58
	59	VDET_EPCI	I					59
	60	PONENG_N	O					60
	61	GND	G					61
	62	POKUSB	O					62
	63	SDMODE_N	O					63
	64	GND	G					64
	65	OPE_USB_P	O					65
	66	OPE_USB_M	O					66
	67	GND	G					67
	68	PONOPE_N	O					68
	69	POKOPE	I					69
	70	GND	G					70
	71	5V	PI					71
	72	space(:N.C.)	N					72
	73	GND	G					73
	74	GND	G					74
	75	GND	G					75
	76	GND	G					76
	77	GND	G					77
	78	space(:N.C.)	N					78
	79	5VE/5VX	PI					79
	80	5VE/5VX	PI					80
	81	5VE/5VX	PI					81
	82	5VE/5VX	PI					82
	83	5VE/5VX	PI					83
	84	5VE/5VX	PI					84
	85	5VE/5VX	PI					85
	86	5VE/5VX	PI					86
	87	5VE/5VX	PI					87
	88	5VE/5VX	PI					88
	89	5VE/5VX	PI					89
	90	5VE/5VX	PI					90
	91	5VE/5VX	PI					91
	92	5VE/5VX	PI					92
	93	5VE/5VX	PI					93
	94	5VE/5VX	PI					94
	95	5VE/5VX	PI					95
	96	5VE/5VX	PI					96
	97	5VE/5VX	PI					97
	98	5VE/5VX	PI					98
	99	5VE/5VX	PI					99
	100	5VE/5VX	PI					100
	101	5VE/5VX	PI					101
	102	5VE/5VX	PI					102
	103	5VE/5VX	PI					103
	104	5VE/5VX	PI					104
	105	5VE/5VX	PI					105
	106	5VE/5VX	PI					106
	107	space（N.C.）	N					107
	108	GND	G					108
	109	GND	G					109
	110	GND	G					110
	111	space（N.C.）	N					111
	112	12V	PI					112
	113	12V	PI					113
	114	12V	PI					114
	115	12V	PI					115
	116	12V	PI					116
	117	12V	PI					117
	118	12V	PI					118
	119	12V	PI					119
	120	12V	PI					120
	121	12V	PI					121
	122	12V	PI					122
	123	12V	PI					123
	124	12V	PI					124
	125	space（N.C.）	N					125
	126	GND	G					126
	127	OP2_TCLK/OP0_CLK	O					127
	128	OP2_TXD/OP0_TXD	O					128
	129	OP2_REQ	I					129
	130	OP2_RCLK	O					130
	131	OP2_RXD/OP0_RXD	I					131
	132	GND	G					132
	133	PON_VEPCNV_N	O					133
	134	GND	G					134
		OPE_CTLERR_N	O					
	135	VXCNV_LV_N	O					135
	136	VEPCNV_RDY_N	I					136
	137	LDET_IN_N	I					137
	138	FUKKI	O					138
	139	LDET_ACSWOFF_N	O					139
	140	GND	G					140

Controller Board Pin Assign Information

Connector (FROM)		Signal Information				Connector (TO)		
No	Pin No	Signal Name	Direction	L	H	No	To Connector	Pin No
CN501	1	5VE/5VX	PIO			CN526	GWFCU-IF10 (Fax Option)	1
	2	5VE/5VX	PIO					2
	3	5VE/5VX	PIO					3
	4	5VE/5VX	PIO					4
	5	5VE/5VX	PIO					5
	6	5VE/5VX	PIO					6
	7	5VE/5VX	PIO					7
	8	5V	PIO					8
	9	INTD_N	I					9
	10	INTA_N	I					10
	11	REQ6_N	I					11
	12	GNT6_N	O					12
	13	REQ1_N	I					13
	14	GNT1_N	O					14
	15	GND	G					15
	16	PCIAD30	I/O					16
	17	PCIAD28	I/O					17
	18	PCIAD26	I/O					18
	19	PCIAD24	I/O					19
	20	GND	G					20
	21	PCIAD22	I/O					21
	22	PCIAD20	I/O					22
	23	PCIAD18	I/O					23
	24	PCIAD16	I/O					24
	25	GND	G					25
	26	C/BE2_N	I/O					26
	27	C/BE0_N	I/O					27
	28	PCIRST_N	O					28
	29	DEVSEL_N	STS					29
	30	IRDY_N	STS					30
	31	PERR_N	STS					31
	32	PAR	I/O					32
	33	GND	G					33
	34	PCIAD14	I/O					34
	35	PCIAD12	I/O					35
	36	PCIAD10	I/O					36
	37	PCIAD8	I/O					37
	38	GND	G					38
	39	PCIAD6	I/O					39
	40	PCIAD4	I/O					40
	41	PCIAD2	I/O					41
	42	PCIAD0	I/O					42
	43	GND	G					43
	44	C/BE6_N	I/O					44
	45	C/BE4_N	I/O					45
	46	64REQ_N	STS					46
	47	64PAR	I/O					47
	48	GND	G					48
	49	PCIAD62	I/O					49
	50	PCIAD60	I/O					50
	51	PCIAD58	I/O					51
	52	PCIAD56	I/O					52
	53	GND	G					53
	54	PCIAD54	I/O					54
	55	PCIAD52	I/O					55
	56	PCIAD50	I/O					56
	57	PCIAD48	I/O					57
	58	GND	G					58
	59	PCIAD46	I/O					59
	60	PCIAD44	I/O					60
	61	PCIAD42	I/O					61
	62	PCIAD40	I/O					62
	63	GND	G					63
	64	PCIAD38	I/O					64
	65	PCIAD36	I/O					65
	66	PCIAD34	I/O					66
	67	PCIAD32	I/O					67
	68	GND	G					68
	69	PETXD	O					69
	70	PONSENS0_N	O					70
	71	OP2_TCLK/OP0_CLK	O					71
	72	OP2_TXD/OP0_TXD	O					72
	73	OP2_REQ	I					73
	74	Reserve	N					74
	75	Reserve	N					75
	76	Reserve	N					76
	77	GND	G					77
	78	Reserve	N					78
	79	Reserve	N					79
	80	Reserve	N					80
	81	Reserve	N					81
	82	GND	G					82
	83	Reserve	N					83
	84	Reserve	N					84
	85	Reserve	N					85
	86	SDMODE_N	O					86
	87	FUKKI	O					87
	88	TIMER_UP0_N	O					88
	89	ENG_ENABLE_N	O					89
	90	PONENG_N	O					90
	91	PONPCI_N	O					91
	92	PSAVE_FCU	O					92
	93	GND	G					93
	94	PCICLKE1	O					94
	95	GND	G					95
	96	PCICLKE4	O					96
	97	GND	G					97
	98	12V	PI					98
	99	12V	PI					99
	100	12V	PI					100

Controller Board Pin Assign Information

Connector (FROM)		Signal Information				Connector (TO)		
No	Pin No	Signal Name	Direction	L	H	No	To Connector	Pin No
CN501	101	5VE/5VX	PIO			CN526	GWFCU-IF10 (Fax Option)	101
	102	5VE/5VX	PIO					102
	103	5VE/5VX	PIO					103
	104	5VE/5VX	PIO					104
	105	5VE/5VX	PIO					105
	106	5VE/5VX	PIO					106
	107	5VE/5VX	PIO					107
	108	5VE/5VX	PIO					108
	109	INTC_N	I					109
	110	INTB_N	I					110
	111	REQ3_N	I					111
	112	GNT3_N	O					112
	113	REQ2_N	I					113
	114	GNT2_N	O					114
	115	GND	G					115
	116	PCIAD31	I/O					116
	117	PCIAD29	I/O					117
	118	PCIAD27	I/O					118
	119	PCIAD25	I/O					119
	120	GND	G					120
	121	PCIAD23	I/O					121
	122	PCIAD21	I/O					122
	123	PCIAD19	I/O					123
	124	PCIAD17	I/O					124
	125	GND	G					125
	126	C/BE3_N	I/O					126
	127	C/BE1_N	I/O					127
	128	WKUP_FCU_N	I					128
	129	TRDY_N	STS					129
	130	FRAME_N	STS					130
	131	STOP_N	STS					131
	132	SERR_N	I					132
	133	GND	G					133
	134	PCIAD15	I/O					134
	135	PCIAD13	I/O					135
	136	PCIAD11	I/O					136
	137	PCIAD9	I/O					137
	138	GND	G					138
	139	PCIAD7	I/O					139
	140	PCIAD5	I/O					140
	141	PCIAD3	I/O					141
	142	PCIAD1	I/O					142
	143	GND	G					143
	144	C/BE7_N	I/O					144
	145	C/BE5_N	I/O					145
	146	64ACK_N	STS					146
	147	INTE_N	I					147
	148	GND	G					148
	149	PCIAD63	I/O					149
	150	PCIAD61	I/O					150
	151	PCIAD59	I/O					151
	152	PCIAD57	I/O					152
	153	GND	G					153
	154	PCIAD55	I/O					154
	155	PCIAD53	I/O					155
	156	PCIAD51	I/O					156
	157	PCIAD49	I/O					157
	158	GND	G					158
	159	PCIAD47	I/O					159
	160	PCIAD45	I/O					160
	161	PCIAD43	I/O					161
	162	PCIAD41	I/O					162
	163	GND	G					163
	164	PCIAD39	I/O					164
	165	PCIAD37	I/O					165
	166	PCIAD35	I/O					166
	167	PCIAD33	I/O					167
	168	GND	G					168
	169	PERXD	I					169
	170	Reserve	N					170
	171	OP2_RCLK	O					171
	172	OP2_RXD/OP0_RXD	I					172
	173	Reserve	N					173
	174	Reserve	N					174
	175	ACSWON_N	I					175
	176	REON_DC_N	O					176
	177	GND	G					177
	178	Reserve	N					178
	179	Reserve	N					179
	180	Reserve	N					180
	181	Reserve	N					181
	182	GND	G					182
	183	ENGRDY1_N	I					183
	184	PONCTL_N	O					184
	185	PW_SW_N	I					185
	186	WKUP_L_N	I					186
	187	WKUP_E	I					187
	188	Reserve	N					188
	189	24V	PO					189
	190	POKFCU	I					190
	191	Reserve	N					191
	192	PCICLKE3	O					192
	193	GND	G					193
	194	PCICLKE2	O					194
	195	GND	G					195
	196	TIMER_UP1_N	O					196
	197	GND	G					197
	198	12V	PI					198
	199	12V	PI					199
	200	12V	PI					200

OP-R (D137/D138) Pin Assign Information

Connector (FROM)		Signal Information				Connector (TO)		
No	Pin No	Signal Name	Direction	L	H	No	To Connector	Pin No
CN625	1	XN	B				Touch Panel	
	2	YP	O					
	3	XP	O					
	4	YN	B					
CN628	1	GND	G			CN621	OP-U	24
	2	5VE	P					23
	3	GND	G					22
	4	3.3VX	P					21
	5	GND	G					20
	6	KSC3_N	O					19
	7	KSC5_N	O					18
	8	GND	G					17
	9	KD0	I					16
	10	KD1	I					15
	11	KD2	I					14
	12	KD3	I					13
	13	KD4	I					12
	14	KD5	I					11
	15	GND	G					10
	16	LSC0	O					9
	17	LSC1	O					8
	18	LSC4	O					7
	19	LSC5	O					6
	20	GND	G					5
	21	LEDD0_N	O					4
	22	LEDD1_N	O					3
	23	OPE_L-LED_N	O					2
	24	5VEP_EN	O					1
CN622	1	GND	G			CN3	Attention Light (D137/D138 only)	
	2	PAT_BEEP	O					4
	3	PATLITE_R_N	O					3
	4	PATLITE_Y_N	O					2
	5	PATLITE_B_N	O					1
CN630	1	GND	G			CN616	LCDC	
	2	GND	G					
	3	GND	G					
	4	GND	G					
	5	OPE_LED_N	I					
	6	5VE_PG	I					
	7	I2C_SDA	B					
	8	I2C_SCL	B					
	9	WVGA_PEN_REQ_N	O					
	10	5VEP_EN	I					
	11	HUB_RESET_N	I					
	12	LDET_STATE_N	O					
	13	STR_ON	O					
	14	STR_FLAG_IN	O					
	15	KEY_REG_N	O					
	16	ECO_KEY_OK	O					
	17	GND	G					
	18	3.3VEP	P					
	19	GND	G					
	20	5VEP	P					
	21	5VEP	P					
	22	5VEP	P					
	23	5VEP	P					
	24	5VEP	P					
	25	GND	G					
	26	GND	G					
	27	GND	G					
	28	5VE	P					
	29	5VE	P					
	30	5VE	P					
	31	5VE	P					
	32	5VE	P					
	33	5VE	P					
	34	GND	G					
	35	5VX	P					
CN624	1	FOOT_SW_N	I			CN2	Foot Switch	
	2	GND	G					
CN631	1	5VX_VBUS	P			CN583	Controller Board	
	2	USBDM_U	B					
	3	USBDP_U	B					
	4	N.C.	N					
	5	GND / FG3	P					
CN627	1	5VX_VBUS	P			CN620	LCDC	
	2	USBDM_D1	B					
	3	USBDP_D1	B					
	4	N.C.	N					
	5	GND / FG4	P					

OP-U (D137/D138) Pin Assign Information

Connector (FROM)		Signal Information				Connector (TO)		
No	Pin No	Signal Name	Direction	L	H	No	To Connector	Pin No
CN621	1	5VEP_EN	O			CN628	OP-R	
	2	OPE_L-LED_N	O					
	3	LEDD1_N	O					
	4	LEDD0_N	O					
	5	GND	P					
	6	LSC5	O					
	7	LSC4	O					
	8	LSC1	O					
	9	LSC0	O					
	10	GND	P					
	11	KD5	I					
	12	KD4	I					
	13	KD3	I					
	14	KD2	I					
	15	KD1	I					
	16	KD0	I					
	17	GND	P					
	18	KSC5_N	O					
	19	KSC3_N	O					
	20	GND	P					
	21	3.3VX	P					
	22	GND	P					
	23	5VE	P					
	24	GND	P					

OP-R (D135/D136) Pin Assign Information

Connector (FROM)		Signal Information				Connector (TO)		
No	Pin No	Signal Name	Direction	L	H	No	To Connector	Pin No
CN629	1	GND	G			CN616	LCDC	
	2	GND	G					
	3	GND	G					
	4	GND	G					
	5	OPE_LED_N	I					
	6	5VE_PG	I					
	7	I2C_SDA	I/O					
	8	I2C_SCL	I/O					
	9	WVGA_PEN_REQ_N	O					
	10	5VEP_EN	I					
	11	HUB_RESET_N	I					
	12	LDET_STATE_N	O					
	13	STR_ON	O					
	14	STR_FLAG_IN	O					
	15	KEY_REG_N	O					
	16	ECO_KEY_OK	O					
	17	GND	G					
	18	3.3VEP	P					
	19	GND	G					
	20	5VEP	P					
	21	5VEP	P					
	22	5VEP	P					
	23	5VEP	P					
	24	5VEP	P					
	25	GND	G					
	26	GND	G					
	27	GND	G					
	28	5VE	P					
	29	5VE	P					
	30	5VE	P					
	31	5VE	P					
	32	5VE	P					
	33	5VE	P					
	34	GND	G					
	35	5VX	P					
CN631	1	5VE	P			CN625	OP-L	30
	2	GND	G					29
	3	KSC3_N	O					28
	4	KSC5_N	O					27
	5	KD0	I					26
	6	KD1	I					25
	7	KD2	I					24
	8	KD3	I					23
	9	KD4	I					22
	10	KD5	I					21
	11	GND	G					20
	12	LSC0	O					19
	13	LSC1	O					18
	14	LSC3	O					17
	15	LSC4	O					16
	16	LSC5	O					15
	17	LEDD0_N	O					14
	18	LEDD1_N	O					13
	19	5VEP_EN	O					12
	20	GND	G					11
	21	OPE_L-LED_N	O					10
	22	USB_OC_FLG_N	I					9
	23	USC_OC_EN	O					8
	24	3.3VX	P					7
	25	DP_PWRUP_N	I					6
	26	HUB_RESET_N	O					5
	27	5VEP	P					4
	28	5VEP	P					3
	29	GND	G					2
	30	GND	G					1
CN628	1	XN	B				Touch Panel	
	2	YP	O					
	3	XP	O					
	4	YN	B					
CN626	1	GND	G			CN7	Attention Light	
	2	PAT_BEEP	O					
	3	PATLITE_R_N	O					
	4	PATLITE_Y_N	O					
	5	PATLITE_B_N	O					
CN624	1	FOOT_SW_N	I			CN2	Foot Switch	
	2	GND	G					
CN623	1	5VX_VBUS	P				Controller Board	
	2	USBDM_U	B					
	3	USBDP_U	B					
	4	N.C.	N					
	5	GND / FG3	P					
CN624	1	5VX_VBUS	P			CN631	LCDC	
	2	USBDM_D2	B					
	3	USBDP_D2	B					
	4	N.C.	N					
	5	GND / FG3	P					

MKB Pin Assign Information

Connector (FROM)		Signal Information				Connector (TO)		
No	Pin No	Signal Name	Direction	L	H	No	To Connector	Pin No
CN750	1	+24V	P				13P Parallel	
	2	KEYCD	I					
	3	GND	G					
	4	XKEYCD_MOTOR	I					
	5	XKEYCD_BOTH	I					
	6	XKEYCD_MODE2	I					
	7	XKEYCD_MODE1	I					
	8	CA_MT_CC_I	I					
	9	XKEYCD_SIZE3	I					
	10	XKEYCD_SIZE2	I					
	11	XKEYCD_SIZE1	I					
	12	XKEYCD_SET_O	O					
	13	+5V	P				20P Parallel	
CN751	A1	+5V	P					
	A2	+5V	P					
	A3	+5V	P					
	A4	+5V	P					
	A5	+5V	P					
	A6	+5V	P					
	A7	+5V	P					
	A8	+5V	P					
	A9	XKEYCD_SET_I	I					
	A10	+24V	P					
	B1	XKEYCD_MOTOR	O					
	B2	XKEYCD_BOTH	O					
	B3	XKEYCD_MODE2	O					
	B4	XKEYCD_MODE1	O					
	B5	XKEYCD_SIZE4	O					
	B6	XKEYCD_SIZE3	O					
	B7	XKEYCD_SIZE2	O					
	B8	XKEYCD_SIZE1	O					
	B9	GND	G					
	B10	XKEYCD_O	O					
CN752	1	GND	G			CN580	IPU	6
	2	GND	G					5
	3	TXD	I					4
	4	RXD	O					3
	5	+5VE	P					2
	6	+5VE	P					1
CN753	1	GND	G				7P Parallel	
	2	RXD_MK1	O					
	3	TXD_MK1	I					
	4	GND	G					
	5	+5VE	P					
	6	+5VE	P					
	7	GND	G					

OP-L (D135/D136) Pin Assign Information

Connector (FROM)		Signal Information				Connector (TO)		
No	Pin No	Signal Name	Direction	L	H	No	To Connector	Pin No
CN622	1	DAT3	B				SD Connector	
	2	CMD	B					
	3	GND / FG2	P					
	4	VCC	P					
	5	CLK	O					
	6	GND / FG2	P					
	7	DAT0	B					
	8	DAT1	B					
	9	DAT2	B					
	10	CARD DETECT	I					
	11	COMMON	P					
	12	WRITE PROTECT	I					
	13	FG2	P					
	14	FG2	P					
CN625	1	GND	P			CN631	OP-R	
	2	GND	P					
	3	5VEP	O					
	4	5VEP	O					
	5	HUB_RESET_N	I					
	6	DP_PWRUP_N	I					
	7	3.3VX	I					
	8	USC_OC_EN	I					
	9	USB_OC_FLG_N	I					
	10	OPE_L-LED_N	I					
	11	GND	P					
	12	5VEP_EN	O					
	13	LEDD1_N	O					
	14	LEDD0_N	O					
	15	LSC5	O					
	16	LSC4	O					
	17	LSC3	O					
	18	LSC1	O					
	19	LSC0	O					
	20	GND	P					
	21	KD5	O					
	22	KD4	I					
	23	KD3	O					
	24	KD2	P					
	25	KD1	I					
	26	KD0	O					
	27	KSC5_N	P					
	28	KSC3_N	P					
	29	GND	P					
	30	5VE	P					
CN623	1	5VX_VBUS	P			CN583	Controller Board	
	2	USBDM_U	B					
	3	USBDP_U	B					
	4	N.C.	N					
	5	GND / FG3	P					
CN624	1	5VX_VBUS	P			CN620	LCDC	
	2	USBDM_D1	B					
	3	USBDP_D1	B					
	4	N.C.	N					
	5	GND / FG3	P					
CN621	1	5VEP_VBUS	P				USB	
	2	USBDM_D2	B					
	3	USBDP_D2	B					
	4	GND / FG1	P					

GWFCU Pin Assign Information

Connector (FROM)		Signal Information				Connector (TO)		
No	Pin No	Signal Name	Direction	L	H	No	To Connector	Pin No
CN603	1	GND	G			CN660	FCUIF-D	
	2	GND	G					
	3	5VEP_FCU	P					
	4	5VEP_FCU	P					
	5	5VDET	O					
	6	3.3VEP_FCU	P					
	7	CPAB21	O					
	8	CPAB20	O					
	9	CPAB19	O					
	10	CPAB18	O					
	11	CPAB17	O					
	12	CPAB16	O					
	13	CPAB15	O					
	14	CPAB14	O					
	15	CPAB13	O					
	16	CPAB12	O					
	17	CPAB11	O					
	18	CPAB10	O					
	19	CPAB9	O					
	20	CPAB8	O					
	21	CPAB7	O					
	22	CPAB6	O					
	23	CPAB5	O					
	24	CPAB4	O					
	25	CPAB3	O					
	26	CPAB2	O					
	27	CPAB1	O					
	28	CPAB0	O					
	29	CPDB15	I/O					
	30	CPDB14	I/O					
	31	CPDB13	I/O					
	32	CPDB12	I/O					
	33	CPDB11	I/O					
	34	CPDB10	I/O					
	35	CPDB9	I/O					
	36	CPDB8	I/O					
	37	CPDB7	I/O					
	38	CPDB6	I/O					
	39	CPDB5	I/O					
	40	CPDB4	I/O					
	41	CPDB3	I/O					
	42	CPDB2	I/O					
	43	CPDB1	I/O					
	44	CPDB0	I/O					
	45	WRL_N	O					
	46	RD_N	O					
	47	DP1CS_N	O					
	48	DP1CS2_N	O					
	49	CCU2ACK_N	I					
	50	WAKEIN_N	I					
	51	CCU1ACK_N	I					
	52	CCUEN_N	O					
	53	DR	I					
	54	DT	O					
	55	FS	I					
	56	BCLK	I					
	57	CHNG_N	I					
	58	ROMWRCS_N	O					
	59	SW_1	I					
	60	GND	G					

GWFCU Pin Assign Information

Connector (FROM)		Signal Information				Connector (TO)		
No	Pin No	Signal Name	Direction	L	H	No	To Connector	Pin No
CN600	1	GND	G			CN501	Controller Board	
	2	INT	O					
	3	GND	G					
	4	PSAVE_FCU	I					
	5	GND	G					
	6	N.C.	N					
	7	GND	G					
	8	PCIRST_N	I					
	9	GND	G					
	10	CLKPCI	I					
	11	GND	G					
	12	GNT_N	I					
	13	GND	G					
	14	REQ_N	O					
	15	GND	G					
	16	RAPIPIME_N	O					
	17	PCIADD31	I/O					
	18	PCIADD30	I/O					
	19	PCIADD29	I/O					
	20	PCIADD28	I/O					
	21	PCIADD27	I/O					
	22	PCIADD26	I/O					
	23	GND	G					
	24	PCIADD25	I/O					
	25	PCIADD24	I/O					
	26	CBE3	I/O					
	27	GND	G					
	28	IDSEL	I					
	29	PCIADD23	I/O					
	30	PCIADD22	I/O					
	31	GND	G					
	32	PCIADD21	I/O					
	33	PCIADD20	I/O					
	34	PCIADD19	I/O					
	35	GND	G					
	36	PCIADD18	I/O					
	37	PCIADD17	I/O					
	38	PCIADD16	I/O					
	39	GND	G					
	40	CBE2	I/O					
	41	FRAME_N	I/O					
	42	IRDY_N	I/O					
	43	GND	G					
	44	TRDY_N	I/O					
	45	DEVSEL_N	I/O					
	46	STOP_N	I/O					
	47	GND	G					
	48	PERR_N	I/O					
	49	SERR_N	I/O					
	50	PAR	I/O					
	51	GND	G					
	52	CBE1	I/O					
	53	PCIADD15	I/O					
	54	PCIADD14	I/O					
	55	GND	G					
	56	PCIADD13	I/O					
	57	PCIADD12	I/O					
	58	PCIADD11	I/O					
	59	GND	G					
	60	PCIADD10	I/O					
	61	PCIADD9	I/O					
	62	PCIADD8	I/O					
	63	GND	G					
	64	CBE0	I/O					
	65	PCIADD7	I/O					
	66	PCIADD6	I/O					
	67	PCIADD5	I/O					
	68	PCIADD4	I/O					
	69	PCIADD3	I/O					
	70	PCIADD2	I/O					
	71	N.C.	N					
	72	PCIADD1	I/O					
	73	N.C.	N					
	74	PCIADD0	I/O					
	75	N.C.	N					
	76	N.C.	N					
	77	N.C.	N					
	78	N.C.	N					
	79	N.C.	N					
	80	N.C.	N					
	81	N.C.	N					
	82	N.C.	N					
	83	5VX/5VE	P					
	84	SDMODE_N	I					
	85	5VX/5VE	P					
	86	POKFCU	O					
	87	N.C.	N					
	88	24V	P					
CN608	1	SHUNT	I/O				LINE	
	2	T1	I/O					
	3	R1	I/O					
	4	TIP	I/O					
	5	N.C.	N					
	6	RING	I/O					
CN609	1	T1	I/O				TEL	
	2	R1	I/O					
	3	T1	I/O					
	4	R1	I/O					
	5	N.C.	N					
	6	SHUNT	I/O					
CN605	1	SP+	O				Speaker	
	2	SP-(GND)	O					

PSU-ECO Pin Assign Information

RTB 160

Connector (FROM)		Signal Information				Connector (TO)		
No	Pin No	Signal Name	Direction	L	H	No	To Connector	Pin No
CN441	1	AC_L	P			CN411	AC Drive Board	1
	3	AC_N	P					3
CN442R	1	5VX	P			CN576	IPU	3
	2	5VX	P					2
	3	GND	G					6
	4	GND	G					5
CN444R	1	24V	P			CN215	IOB	1
	2	24V	P					2
	3	24V	P					
	4	24V	P					
	5	24V	P			CN215	IOB	3
	6	GND	G					4
	7	GND	G					
	8	GND	G					
CN445R	1	24V	P			CN279	PFB	5
	2	24V	P			CN967	DUB	1
	3	24V	P					
	4	24V	P					
	5	24V	P			CN765	TDRB	3
	6	GND	G			CN279	PFB	4
	7	GND	G			CN967	DUB	2
	8	GND	G					
	9	GND	G					
	10	GND	G			CN765	TDRB	2
CN449R	1	5VSW	P			CN787	Interlock Switch	1
	3	5VS	P					2
CN425R	1	GND	G			CN414	AC Drive Board	5
	2	PONENG_N	I					4
	3	VEPCNV_RDY	I					3
	4	VXCNV_LV_N	I					2
	5	PON_VEPCNV_N	I					1
CN426R	1	GND	G			CN414	AC Drive Board	11
	2	EX_5V	P					10
	3	5VX	P					9
	4	DOOR_OPEN	I					8

PSU-FW Pin Assign Information

Connector (FROM)		Signal Information				Connector (TO)		
No	Pin No	Signal Name	Direction	L	H	No	To Connector	Pin No
CN442L	1	5VX	P			CN279	PFB	1
	2	N.C.	N					
	3	GND	G			CN279		2
	4	N.C.	N					
CN443L	1	5V	P			CN576	IPU	1
	2	CA_MT_CC_I	P			CN215	IOB	5
	3	5V	P			CN1135	Decurl Unit (Option for D137/D138)	2
	4	5V	P			CN1070	DUB	2
	5	5V	P			CN765	TDRB	1
	6	5V	P			CN795	TSB	4
	7	GND	G			CN576	IPU	4
	8	GND	G			CN215	IOB	6
	9	GND	G			CN1135	Decurl Unit (Option for D137/D138)	3
	10	GND	G			CN1070	DUB	3
	11	N.C.	N					
	12	N.C.	N					
CN444L	1	24V	P			CN370	SIO	3
	2	24V	P				SIO	4
	3	24V	P			CN1135	Decurl Unit (Option for D137/D138)	1
	4	N.C.	N					
	5	24V	P			CN370	SIO	1
	6	GND	G				SIO	2
	7	GND	G			CN1135	Decurl Unit (Option for D137/D138)	4
	8	N.C.	N					
CN445L	1	24V	O			CN215	IOB	8
	2	24V	O					
	3	24V	O			CN279	PFB	3
	4	24V	O					
	5	24V	O			CN795	TSB	3
	6	GND	G			CN215	IOB	7
	7	GND	G					
	8	GND	G					
	9	GND	G					
	10	GND	G			CN795	TSB	2
CN425	1	GND	G			CN414	AC Drive Board	5
	2	PONENG_N	I					4
	3	VEPCNV_RDY	I					3
	4	VXCNV_LV_N	I					2
	5	PON_VEPCNV_N	I					1

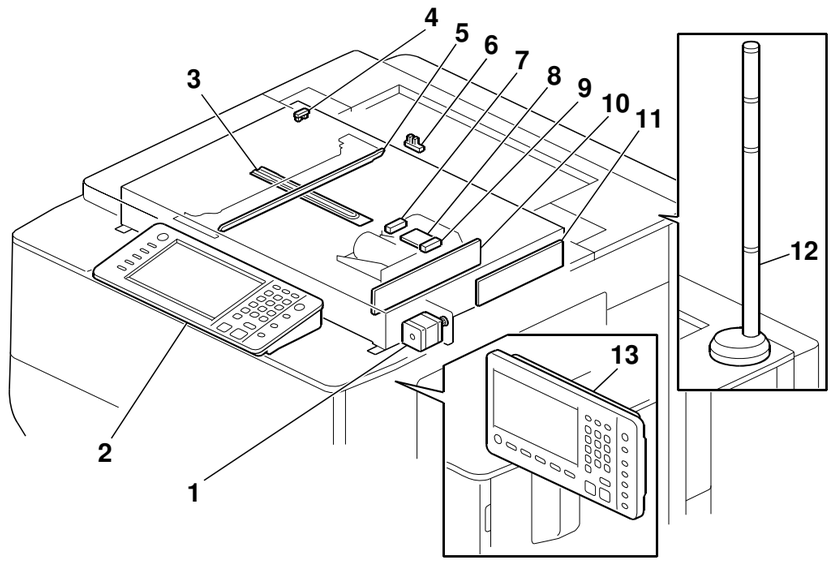
AC Drive Board (100V) Pin Assign Information

Connector (FROM)		Signal Information				Connector (TO)		
No	Pin No	Signal Name	Direction	L	H	No	To Connector	Pin No
T11	-	ACL	AC-1L				AC IN	
T12	-	ACN	AC-1N					
T13	-	AC2L	AC-2L			CN420	AC Drive Board	
T14	-	AC2N	AC-2N					
CN400	1	HT1-L	AC-1L			CN672	Pressure Roller Lamp	
	2	N.C.	N					
	3	HT1-N	AC-1N					
CN401	1	HT2-L	AC-1L			CN819	Paper Bank Heater (Lower)	
	2	HT3-L	AC-1L			CN818	Paper Bank Heater (Upper)	
	3	HT4-L	AC-1L			CN950	LCT Tray Heater	
	4	HT5-L	AC-1L			CN950	LCT Tray Heater	
	5	N.C.	N					
	6	HT2-N	AC-1N			CN819	Paper Bank Heater (Lower)	
	7	HT3-N	AC-1N			CN818	Paper Bank Heater (Upper)	
	8	HT4-N	AC-1N			CN950	LCT Tray Heater	
	9	HT5-N	AC-1N			CN950	LCT Tray Heater	
CN402	1	HT6-L	AC-1L			HT19	Scanner Anticondensation Heater	
	2	HT7-L	AC-1L			CN782	ITB Anti-condensation Heater	
	3	N.C.	N					
	4	HT6-N	AC-1N			HT19	Scanner Anticondensation Heater	
	5	HT7-N	AC-1N			CN782	ITB Anti-condensation Heater	
CN403	1	DOOR_OPEN	I			CN218	IOB	30
	2	SWTRG1	O					29
	3	FIHCLFNLK	I/O					28
	4	FIHCLFN	NC					27
	5	T-24V	I/O					26
	6	T-GND	I/O					25
	7	+24V1	I/O					24
	8	GND	I/O					23
	9	24VS	I/O					22
	10	RLY1_PW	I					21
	11	TRG_PRES	I					20
	12	5V	I/O					19
	13	ZEROX1	O					18
	14	SWTRG2	I/O					17
CN405	1	HT_SW-P	AC-2P			CN405	Loop Harness	
	2	HT_SW-N	AC-2N					
CN407	1	IH-L	AC-2L			CN430	IH Coil Inverter	
	2	IH-N	AC-2N					
CN411	1	PSU1-L	AC-1L			CN441R	PSU-ECO	1
	2	PSU2-L	AC-1L			CN1103L	PSU-FW	1
	3	PSU1-N	AC-1N			CN441R	PSU-ECO	3
	4	PSU2-N	AC-1N			CN1103L	PSU-FW	3
CN412	1	VEPCNV_RDY	I/O			CN596	IPU	6
	2	VXCNV_LV	I/O					5
	3	PON_VEPCNV	I/O					4
	4	GND	I/O					3
	5	GND	I/O					2
	6	PONENG	I/O					1
CN414	1	PON_VEPCNV	I/O			CN425R	PSU-ECO	5
	2	VXCNV_LV	I/O					4
	3	VEPCNV_RDY	I/O					3
	4	SWTRG1	I/O					2
	5	GND	I/O					1
	6	N.C.	N					
	7	SWTRG2	I/O			CN185L	PSU-FW	2
	8	GND	I/O					1
	9	DOOR_OPEN	I/O			CN426R	PSU-ECO	4
	10	5VX	I/O					3
	11	5V	I/O					2
	12	GND	I/O					1

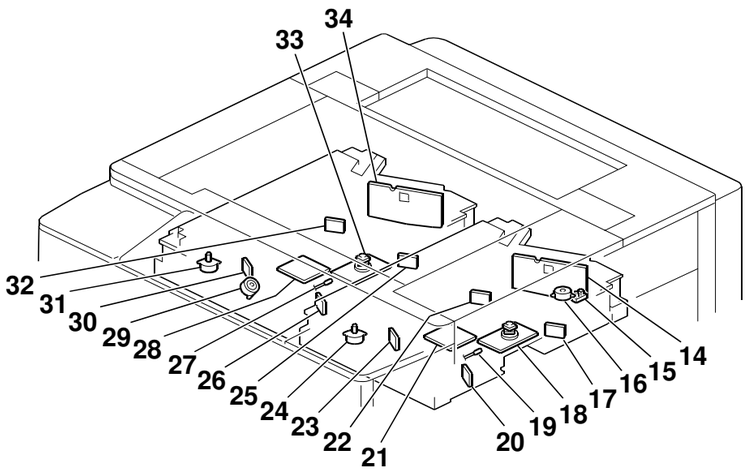
AC Drive Board (200V) Pin Assign Information

Connector (FROM)		Signal Information				Connector (TO)		
No	Pin No	Signal Name	Direction	L	H	No	To Connector	Pin No
T11	-	ACL	AC-1L				AC IN	
T12	-	ACN	AC-1N					
CN400	1	HT1-L	AC-1L			CN672	Pressure Roller Lamp	
	2	N.C.	N					
	3	HT1-N	AC-1N					
CN401	1	HT2-L	AC-1L			CN819	Paper Bank Heater (Lower)	-
	2	HT3-L	AC-1L			CN818	Paper Bank Heater (Upper)	-
	3	HT4-L	AC-1L			CN950	LCT Tray Heater	-
	4	HT5-L	AC-1L			CN950	LCT Tray Heater	-
	5	N.C.	N					-
	6	HT2-N	AC-1N			CN819	Paper Bank Heater (Lower)	-
	7	HT3-N	AC-1N			CN818	Paper Bank Heater (Upper)	-
	8	HT4-N	AC-1N			CN950	LCT Tray Heater	-
	9	HT5-N	AC-1N			CN950	LCT Tray Heater	-
CN402	1	HT6-L	AC-1L			HT19	Scanner Anticondensation Heater	
	2	HT7-L	AC-1L			CN782	ITB Anti-condensation Heater	
	3	N.C.	N					
	4	HT6-N	AC-1N			HT19	Scanner Anticondensation Heater	
	5	HT7-N	AC-1N			CN782	ITB Anti-condensation Heater	
CN403	1	DOOR_OPEN	I			CN218	IOB	30
	2	SWTRG1	O					29
	3	FIHCLFNLK	I/O					28
	4	FIHCLFN	NC					27
	5	T-24V	I/O					26
	6	T-GND	I/O					25
	7	+24V1	I/O					24
	8	GND	I/O					23
	9	24VS	I/O					22
	10	RLY1_PW	I					21
	11	TRG_PRES	I					20
	12	5V	I/O					19
	13	ZEROX1	O					18
	14	SWTRG2	I/O					17
CN407	1	IH-L	P			CN430	IH Coil Inverter	
	2	IH-N	P					
CN411	1	PSU1-L	P			CN441R	PSU-ECO	1
	2	PSU2-L	P			CN1103L	PSU-FW	1
	3	PSU1-N	P			CN441R	PSU-ECO	3
	4	PSU2-N	P			CN1103L	PSU-FW	3
CN412	1	VEPCNV_RDY	I/O			CN596	IPU	6
	2	VXCNV_LV	I/O					5
	3	PON_VEPCNV	I/O					4
	4	GND	I/O					3
	5	GND	I/O					2
	6	PONENG	I/O					1

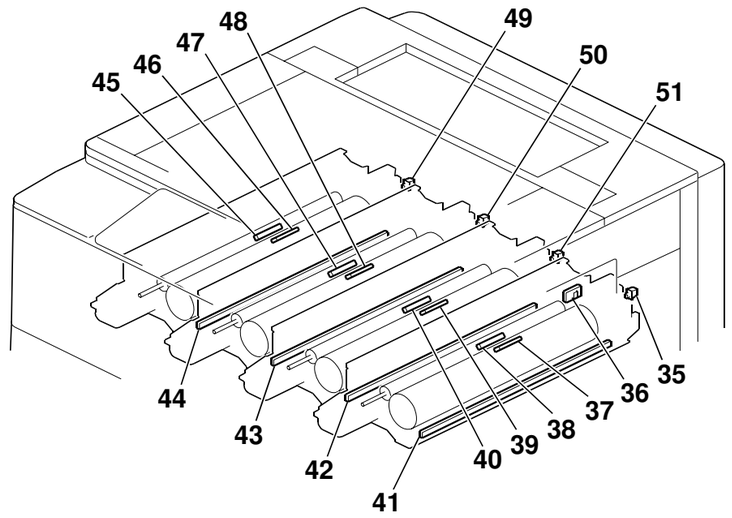
D135/D136/D137/D138 ELECTRICAL COMPONENT LAYOUT (1/7)



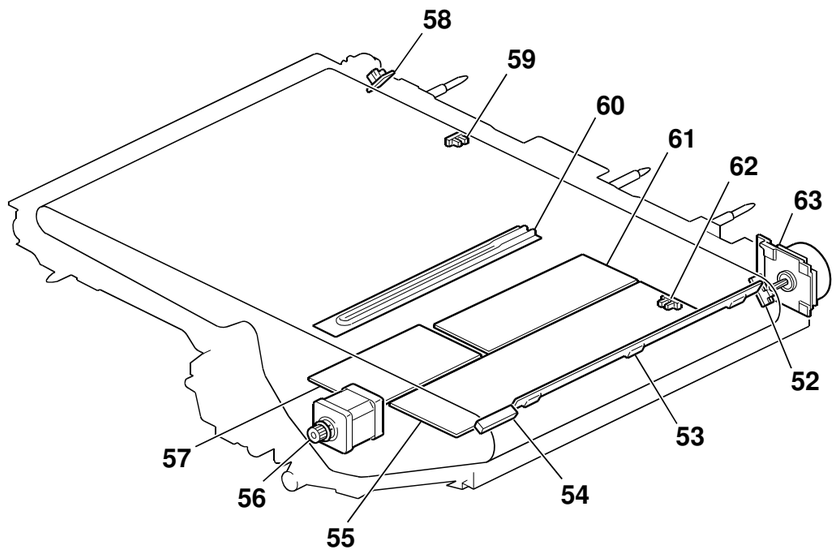
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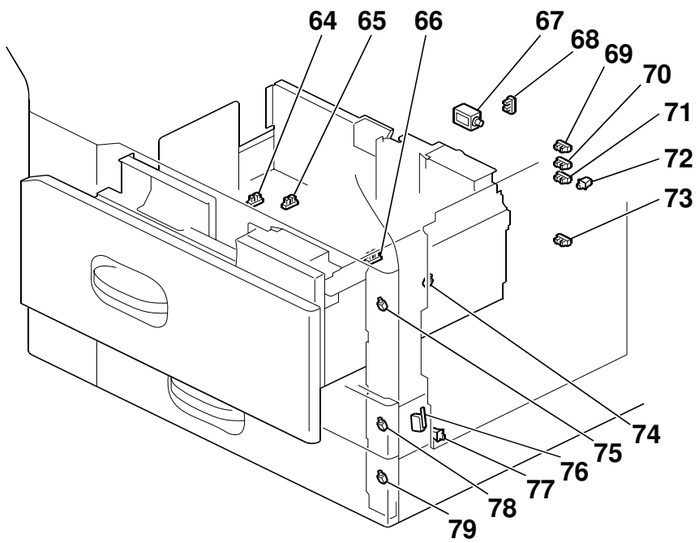


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Symbol	Index No.	Description	P to P	Page
PCBs				
PCB4	10	SBU	H2	1/5
PCB5	11	SIO	I1	1/5
PCB6	8	IDB	J2	1/5
PCB15	14	LD Board (C,K)	B3	1/5
PCB16	34	LD Board (Y,M)	E3	1/5
PCB22	57	TDRB	F2	2/5
PCB23	23	Laser Synchronization Detector Board (C):LE	A2,B2	1/5
PCB24	22	Laser Synchronization Detector Board (C):TE	B2	1/5
PCB25	20	Laser Synchronization Detector Board (K):LE	B2	1/5
PCB26	17	Laser Synchronization Detector Board (K):TE	B2	1/5
PCB27	30	Laser Synchronization Detector Board (Y):LE	E2	1/5
PCB28	32	Laser Synchronization Detector Board (Y):TE	E2	1/5
PCB29	26	Laser Synchronization Detector Board (M):LE	E2	1/5
PCB30	25	Laser Synchronization Detector Board (M):TE	F2	1/5
PCB31	21	Polygon Mirror Motor Drive Board (C,K)	C3	1/5
PCB32	28	Polygon Mirror Motor Drive Board (Y,M)	F3	1/5
PCB36	55	H.V.P.P. (T1/T2)	E4	2/5
PCB37	61	H.V.P.P. (T1) (D137/D138)	E6	2/5
Sensors				
S1	7	APS Sensor 1	I2	1/5
S2	9	APS Sensor 2	I2	1/5
S3	4	Scanner HP Sensor	J2	1/5
S26	46	TD Sensor (Y)	F6	3/5
S27	48	TD Sensor (M)	G6	3/5
S28	39	TD Sensor (C)	I6	3/5
S29	37	TD Sensor (K)	J6	3/5
S30	45	Drum Potential Sensor (Y)	I2	3/5
S31	47	Drum Potential Sensor (M)	J2	3/5
S32	40	Drum Potential Sensor (C)	J2	3/5
S33	38	Drum Potential Sensor (K)	J2	3/5
S92	52	ITB Drive Roller Encoder 1	G4	2/5
S93	58	ITB Drive Roller Encoder 2	H4	2/5
S94	59	ITB Lift Sensor (Y, M, C)	H4	2/5
S95	54	ITB Feedback Sensor	I4	2/5
S96	62	PTR Separation Sensor	I4	2/5
S97	53	ID Sensor	C4	2/5
S115	6	ADF Position Sensor	I7	1/5
S116	36	PCU Temperature/Humidity Sensor	J7	1/5
S117	15	LD Shutter Sensor (C, K only)	D2	1/5

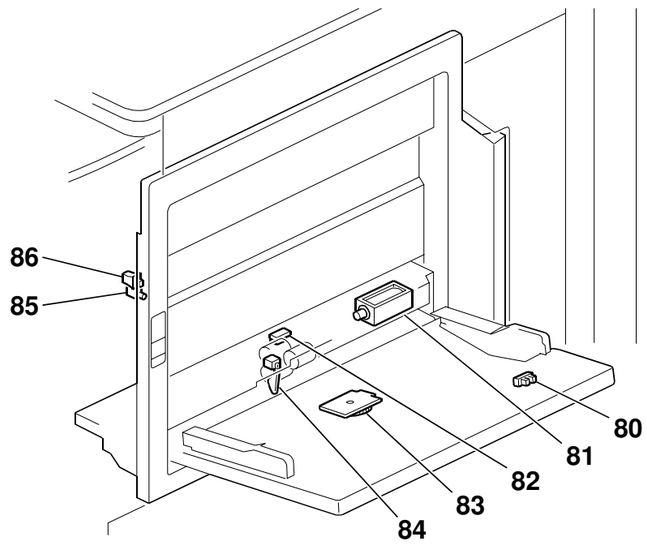
Symbol	Index No.	Description	P to P	Page
Motors				
M1	1	Scanner Motor	I2	1/5
M2	16	LD Shutter Motor (C, K only)	D2	1/5
M3	31	Lens Positioning Motor (Y)	G2	1/5
M4	29	Lens Positioning Motor (M)	G2	1/5
M5	24	Lens Positioning Motor (C)	C2	1/5
M6	33	Polygon Motor (Y,M)	F2	1/5
M7	17	Polygon Motor (C,K)	C2	1/5
M13	63	ITB Drive Motor	H4	2/5
M16	56	PTR Separation Motor	B6	2/5
Switches				
SW5	49	PCDU Set Switch (Y)	F6	3/5
SW6	50	PCDU Set Switch (M)	G6,H6	3/5
SW7	51	PCDU Set Switch (C)	I6	3/5
SW8	35	PCDU Set Switch (K)	J6	3/5
Lamps				
L1	44	PCL (Y)	F6	3/5
L2	43	PCL (M)	H6	3/5
L3	42	PCL (C)	I6	3/5
L4	41	PCL (K)	K6	3/5
L5	5	Scanner Lamp (LED)	J3	1/5
Heaters				
H1	3	Scanner Anti-condensation Heater	B13,C13	3/5
H5	60	ITB Anti-condensation Heater	C4	2/5
Thermistors				
TH1	27	LD Unit Thermistor (Y,M)	G2	1/5
TH2	19	LD Unit Thermistor (C,K)	D2	1/5
Others				
OT1	2	Operation panel (D135/D136)	G8	1/5
OT2	13	Operation panel (D137/D138)	D8	1/5
OT3	12	Attention Light	B6	1/5

D135/D136/D137/D138 ELECTRICAL COMPONENT LAYOUT (2/7)



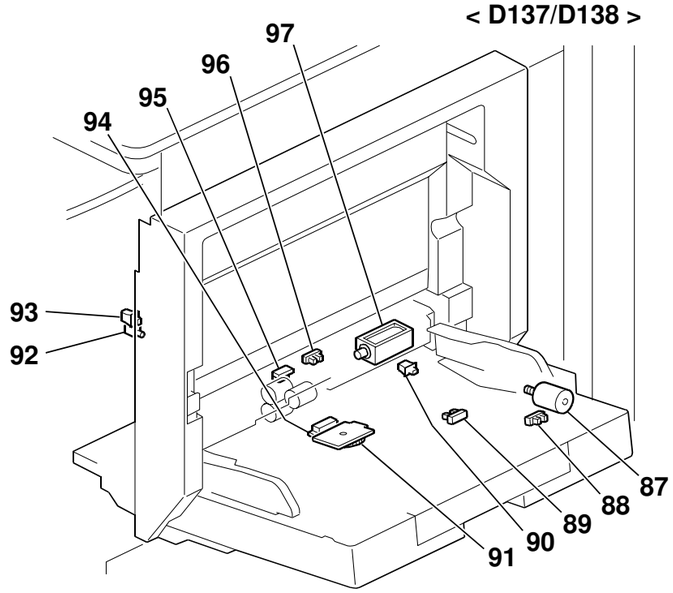
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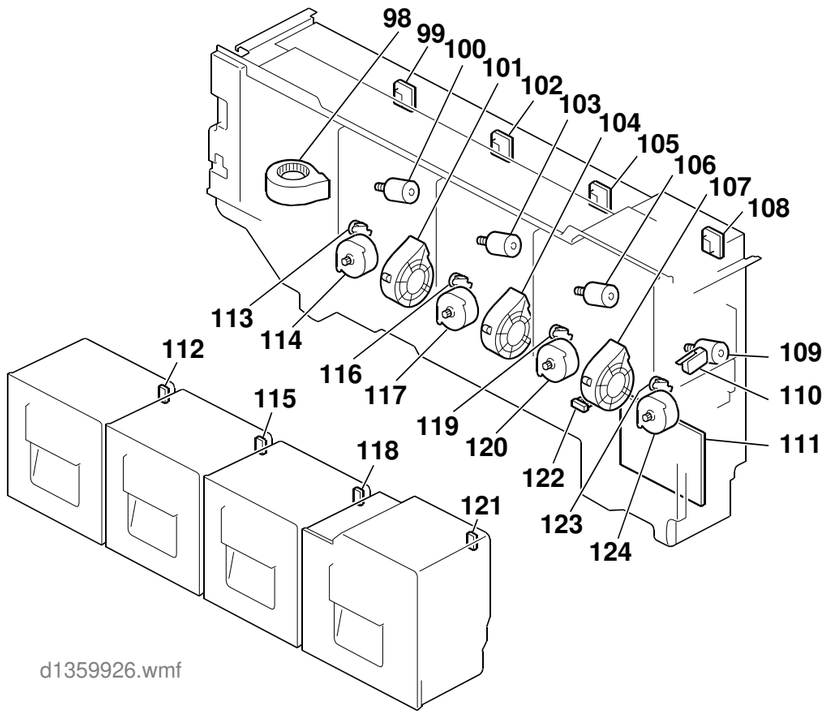


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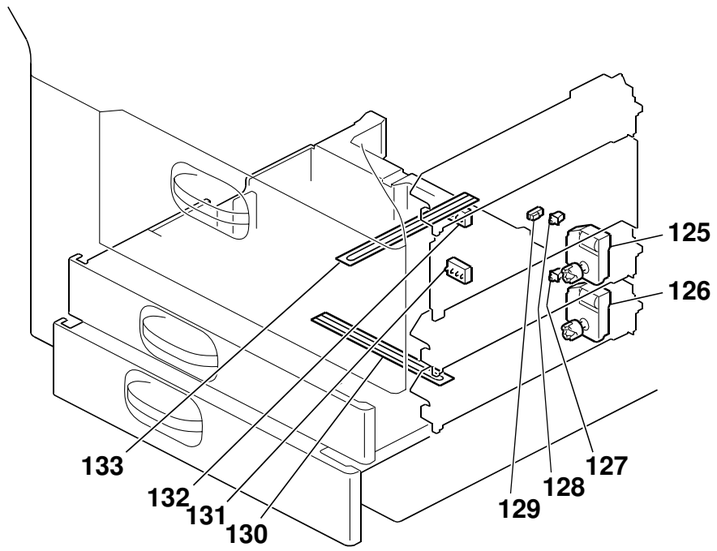


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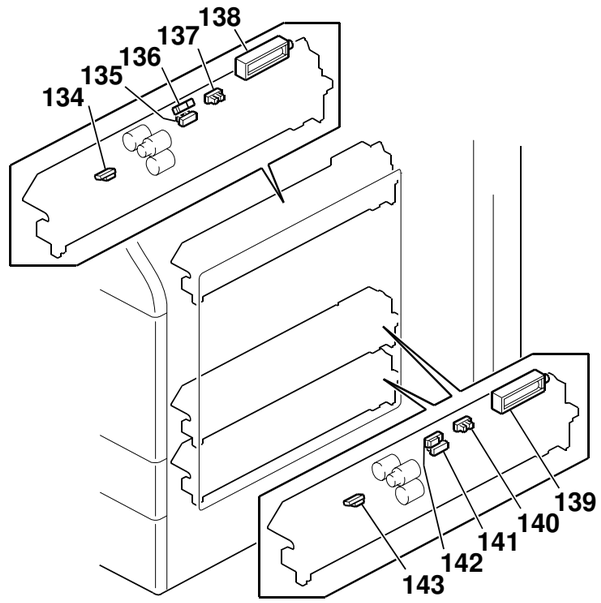
Symbol	Index No.	Description	P to P	Page
PCBs				
PCB39	99	Toner Bottle Detection Board (Y)	I12	3/5
PCB40	102	Toner Bottle Detection Board (M)	I12	3/5
PCB41	105	Toner Bottle Detection Board (C)	J12	3/5
PCB42	108	Toner Bottle Detection Board (K)	K12	3/5
PCB43	111	TSB	J10,J11	3/5
Sensors				
S10	89	By-pass Tray Lower Limit Sensor (D137/D138)	C2	4/5
S11	83,91	By-pass Paper Size Sensor	C2,E2	4/5
S12	80,88	By-pass Paper Length Sensor	C2,F2	4/5
S13	84,94	By-pass Paper End Sensor	D2,D2	4/5
S38	65	Left Tray Paper Sensor	K9	4/5
S39	66	Rear Fence Return Sensor	J9	4/5
S40	64	Rear Fence HP Sensor	J9	4/5
S41	68	Rear Side Fence Close Sensor	I9	4/5
S43	69	Paper Height Sensor 1	D9	4/5
S44	70	Paper Height Sensor 2	D9,E9	4/5
S45	71	Paper Height Sensor 3	E9	4/5
S46	73	Lower Limit Sensor	D9	4/5
S63	96	By-pass Table Limit Sensor (D137/D138)	A2	4/5
S64	82,95	By-pass Feed Sensor	B2,E2	4/5
S99	122	ITB Cleaning Unit Set Sensor	I14,I15	3/5
S100	113	Toner End Sensor (Y)	I12	3/5
S101	116	Toner End Sensor (M)	J12	3/5
S102	119	Toner End Sensor (C)	J12	3/5
S103	123	Toner End Sensor (K)	K12	3/5
Motors				
M26	87	By-pass Tray Lift Motor (D137/D138)	C2	4/5
M60	114	Toner Supply Motor (Y)	H9	3/5
M61	117	Toner Supply Motor (M)	H9	3/5
M62	120	Toner Supply Motor (C)	I9	3/5
M63	124	Toner Supply Motor (K)	J9	3/5
M64	100	Toner Bottle Motor (Y)	J9	3/5
M65	103	Toner Bottle Motor (M)	J9,K9	3/5
M66	106	Toner Bottle Motor (C)	K9	3/5
M67	109	Toner Bottle Motor (K)	K9	3/5

Symbol	Index No.	Description	P to P	Page
Fan Motors				
FAN22	98	Development Unit Intake Fan (Y)	H9	3/5
FAN23	101	Development Unit Intake Fan (M)	I9	3/5
FAN24	104	Development Unit Intake Fan (C)	I9	3/5
FAN25	107	Development Unit Intake Fan (K)	J9	3/5
Switches				
SW3	86,93	Upper Right Cover Position Switch	I7	1/5
SW16	72	1st Tray Set Switch	E9	4/5
SW22	76	Lower Right Cover Set Switch	G6,H6	4/5
SW24	77	Lower Right Cover Switch	G6	4/5
SW25	110	Toner Supply Unit Cover Switch	K15	3/5
SW26	90	By-pass Tray Set Switch (D137/D138)	B2	4/5
LEDs				
LED1	85,92	By-pass Cover LED	J7	1/5
LED3	74	Vertical Transport Cover LED	G6	4/5
LED11	75	1st Tray LED (D137/D138)	F6	4/5
LED13	78	2nd Tray LED (D137/D138)	F6	4/5
LED14	79	3rd Tray LED (D137/D138)	G6	4/5
Solenoids				
SOL1	67	Rear Side Fence Solenoid	J9	4/5
SOL7	81,97	By-pass Pick-up Solenoid	B2,E2	4/5
Others				
OT4	112	ID Chip (Y)	I14	3/5
OT5	115	ID Chip (M)	I14	3/5
OT6	118	ID Chip (C)	J14	3/5
OT7	121	ID Chip (K)	K14	3/5

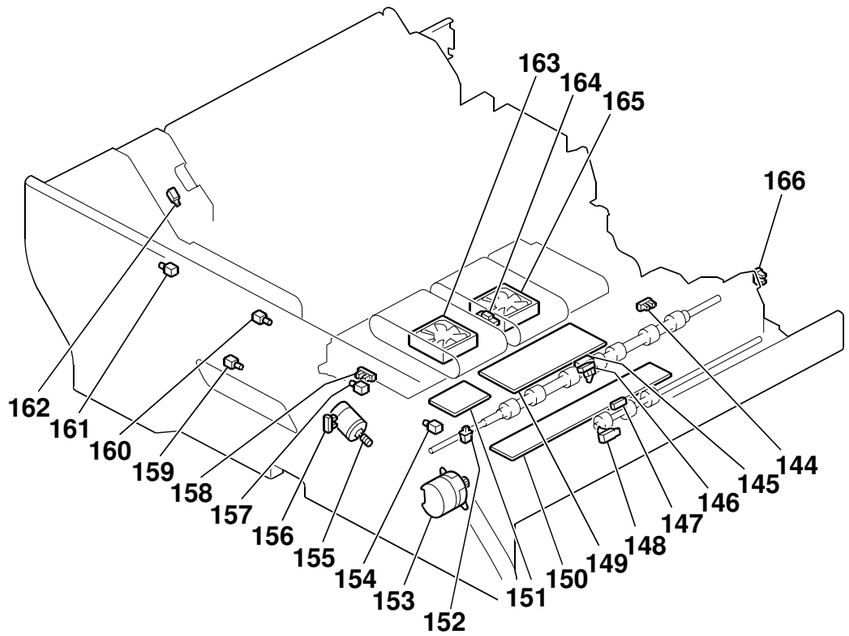
D135/D136/D137/D138 ELECTRICAL COMPONENT LAYOUT (3/7)



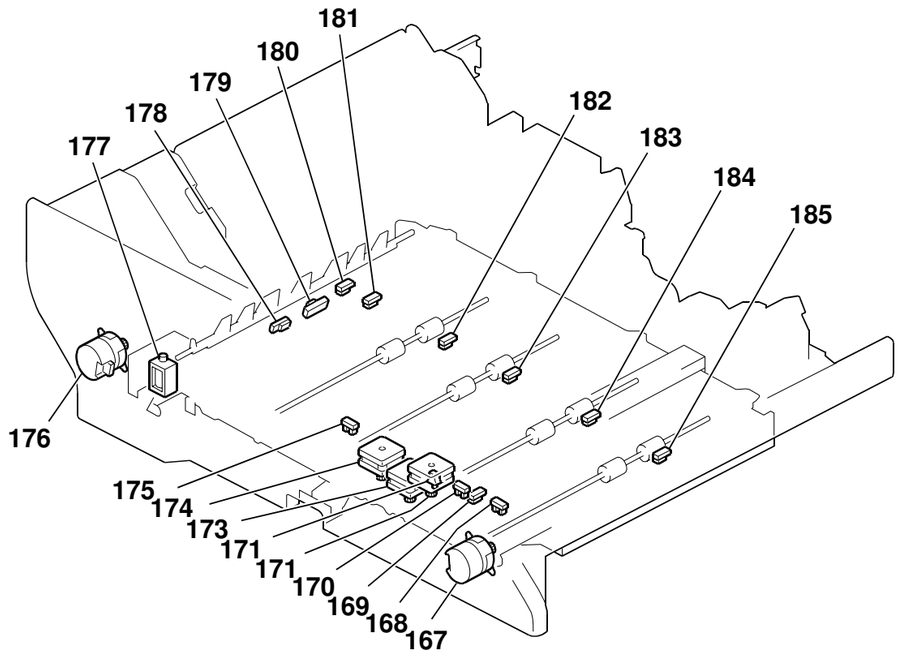
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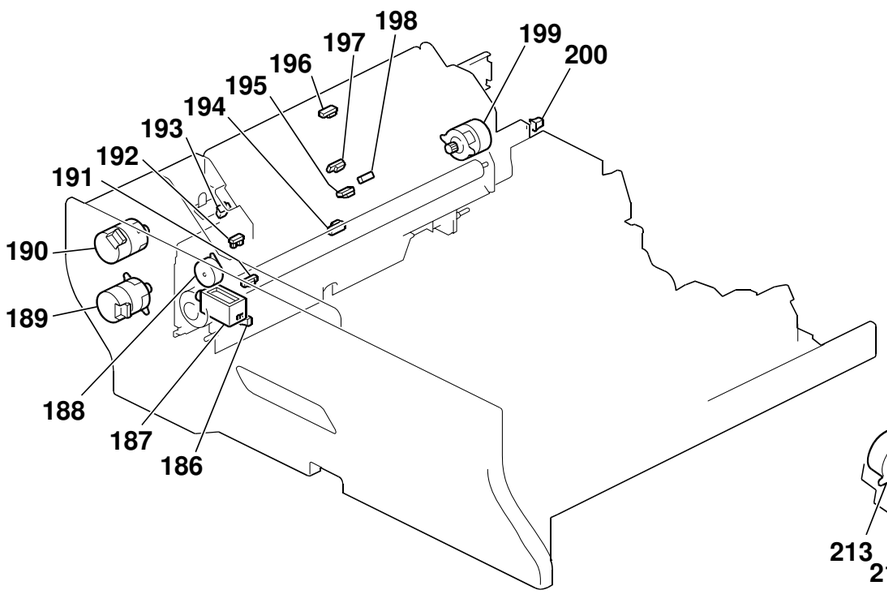


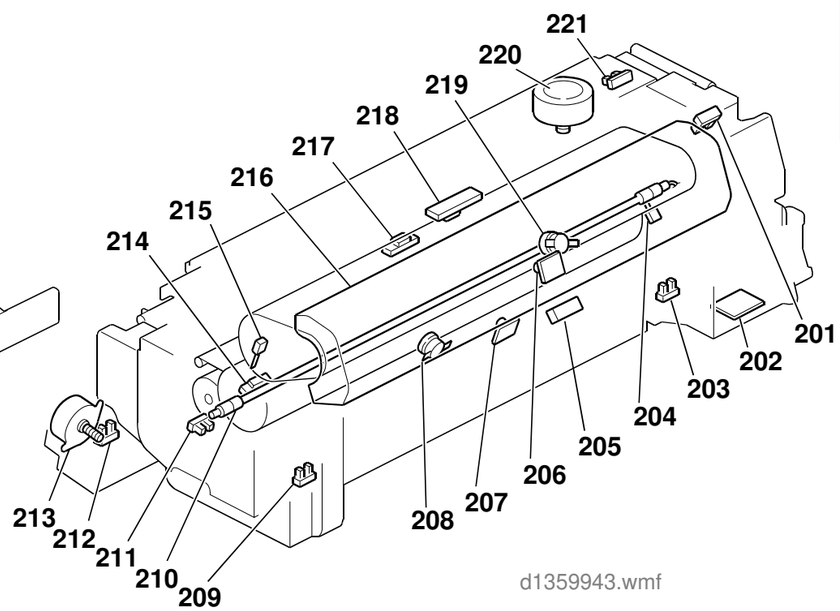
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Symbol	Index No.	Description	P to P	Page
PCBs				
PCB20	150	DUB	F14	4/5
PCB21	151	FDB-D (D137/D138)	D14	3/5
PCB35	149	H.V.P.P. (D)	H13	4/5
Sensors				
S37	166	Drawer Unit Set Sensor	K11	4/5
S47	137	1st Tray Limit Sensor	H2	4/5
S48	135	1st Tray Paper Feed Sensor	H2	4/5
S49	136	1st Tray Transport Sensor	H2,I2	4/5
S50	134	1st Tray Papar Feed Sensor	I2	4/5
S53	129	Vertical Transport Sensor	E6	4/5
S55	140	2nd Tray Pick-up Roller Lift Sensor	I6,J6	4/5
S56	141	2nd Tray Paper End Sensor	I6	4/5
S57	142	2nd Tray Transport Sensor	I6	4/5
S58	143	2nd Tray Paper Feed Sensoe	I6	4/5
S59	140	3rd Tray Pickup Roller Lift Sensor	K6	4/5
S60	141	3rd Tray Paper End Sensor	K6	4/5
S61	142	3rd Transport Sensor	J6	4/5
S62	143	3rd Tray Paper Feed Sensor	J6	4/5
S65	164	PTB Paper Sensor	D12	4/5
S66	158	PTB Unit Set Sensor	D12	4/5
S67	185	Duplex Exit Sensor	E13	4/5
S68	181	Duplex Transport Sensor 1	F13	4/5
S69	182	Duplex Transport Sensor 2	F13	4/5
S70	183	Duplex Transport Sensor 3	F13	4/5
S71	184	Duplex Transport Sensor 4	F13	4/5
S72	180	Duplex Entrance Sensor	G13	4/5
S73	144	Drawer Unit Look Sensor	G13	4/5
S74	169	Paper Edge Sensor	G12,G13	4/5
S75	156	Drawer Unit Lever Sensor	D16	4/5
S76	168	Shift Roller HP Sensor 2	E15	4/5
S77	170	Shift Sensor HP Sensor	E15	4/5
S78	175	Shift Roller HP Sensor 1	F16	4/5
S79	145	Registration Sensor	G16	4/5
S80	146	By-pass Thick Paper sensor	G16	4/5
S81	147	Main Relay Sensor	G16	4/5
S82	148	Main Relay Thickness sensor	H16	4/5
S83	179	Invert/Duplex Sensor	H16	4/5
S84	178	Purged Paper Sensor	H16	4/5

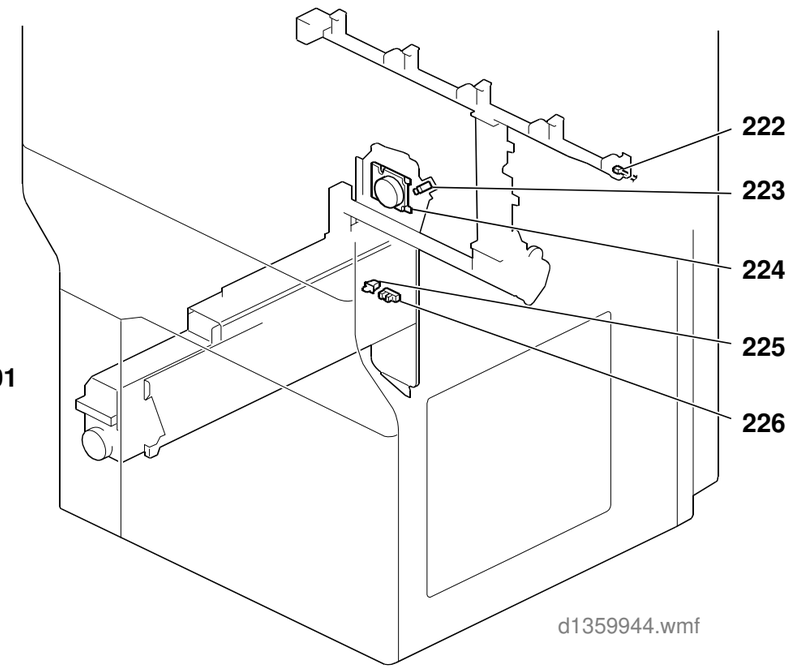
Symbol	Index No.	Description	P to P	Page
Motors				
M30	125	2nd Tray Lift Motor	H9	4/5
M31	126	3rd Tray Lift Motor	H9	4/5
M42	171	Shift Sensor Motor	A13	4/5
M43	173	Shift Roller Motor 2	A13,B13	4/5
M44	174	Shift Roller Motor 1	B13	4/5
M50	167	Duplex Exit Motor	B15	4/5
M51	176	Duplex Transport Motor	B15,C15	4/5
M52	153	Registration Motor	C15	4/5
M53	155	Drawer Unit Lock Motor	C15	4/5
Fan Motors				
FAN28	163	PTB Fan (Front)	E12	4/5
FAN29	165	PTB Fan (Rear)	E12	4/5
Switches				
SW14	128	2nd Tray Set Switch	I9	4/5
SW15	127	3rd Tray Set Switch	I9	4/5
SW18	132	2nd Tray Size Switch	B9	4/5
SW19	131	3rd Tray Size SwitcH	D9	4/5
SW27	172	Transport Guid Plate Switch	F15	4/5
SW30	152	Registration Upper Guide Plate Switch	F16,G16	4/5
LEDs				
LED6	154	Registration Guid Plate LED	D16	4/5
LED7	160	Inverter Guid Plate LED	D16,E16	4/5
LED8	161	Exit Guid Plate LED	E16	4/5
LED9	157	Fusing Guid Plate LED	F16	4/5
LED10	162	Exid Upper Guid Plate LED	I16	4/5
LED15	159	Drawer Unit LED	D16	4/5
Heaters				
H2	133	Paper Bank Heater (Upper)	B13	3/5
H3	130	Paper Bank Heater (Lower)	B13	3/5
Solenoids				
SOL3	138	1st Tray Pick-up Solenoid	I2	4/5
SOL5	139	2nd Tray Pick-up Solenoid	H6	4/5
SOL6	139	3rd Tray Pick-up Solenoid	J6	4/5
SOL8	177	Inverter Duplex Solenoid	C13	4/5

D135/D136/D137/D138 ELECTRICAL COMPONENT LAYOUT (4/7)

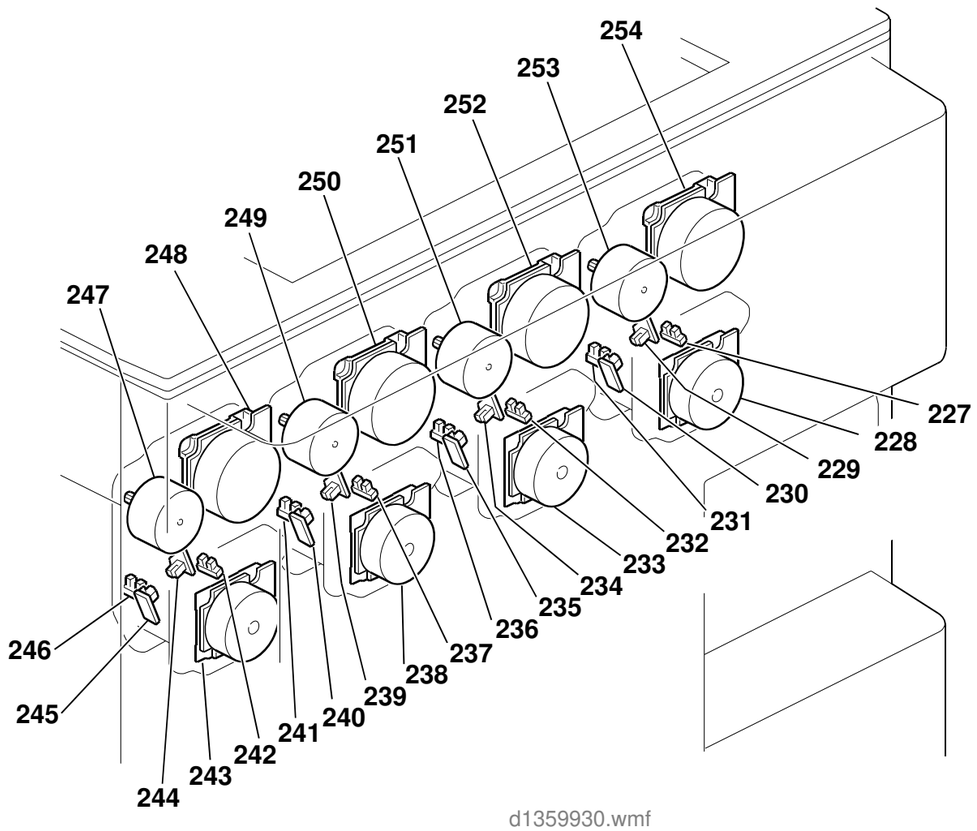




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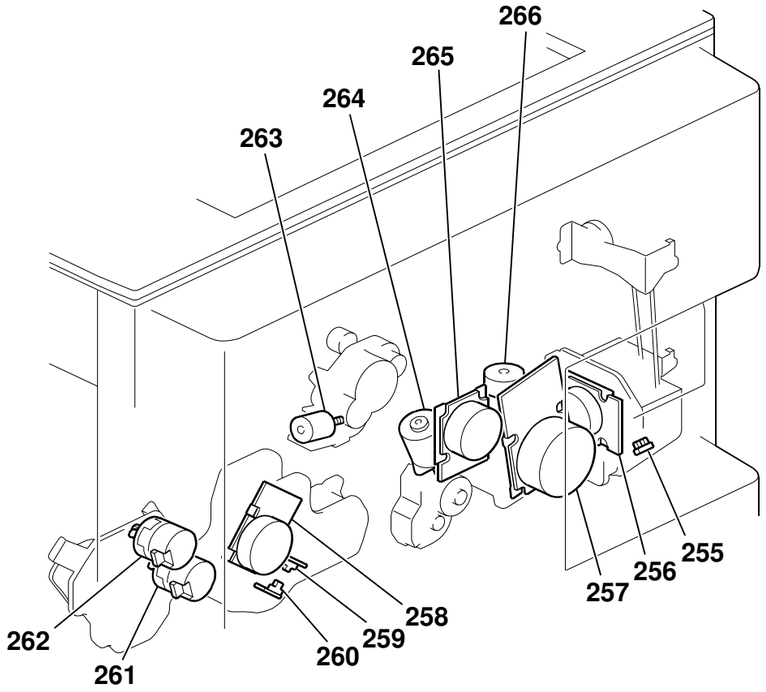
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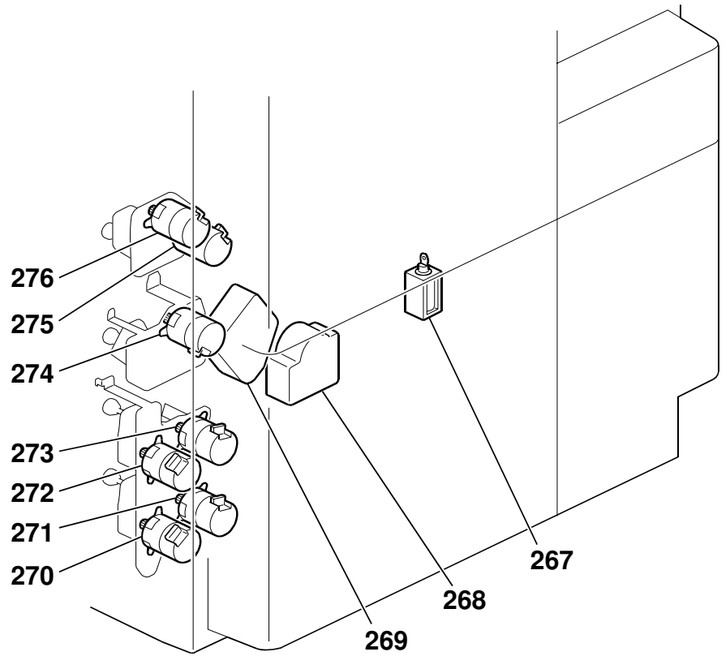
Symbol	Index No.	Description	P to P	Page
PCB				
PCB44	202	ID Chip (Fusing Unit) (D137/D138)	F14	3/5
Sensors				
S5	242	Development Roller HP Sensor (K) (D137/D138	H15	1/5
S6	237	Development Roller HP Sensor (C) (D137/D138	G15,H15	1/5
S7	232	Development Roller HP Sensor (M) (D137/D138	G15	1/5
S8	227	Development Roller HP Sensor (Y) (D137/D138	G15	1/5
S9	205	Fusing Entrance Sensor	B2	3/5
S14	231	Drum HP Sensor (Y) (D137/D138)	F2	3/5
S15	229	Drum Motor Encoder (Y2)	F2	3/5
S16	230	Drum Motor Encoder (Y1)	F2,G2	3/5
S17	236	Drum HP Sensor (M) (D137/D138)	G2	3/5
S18	234	Drum Motor Encoder (M2)	G2	3/5
S19	235	Drum Motor Encoder (M1)	G2	3/5
S20	241	Drum HP Sensor (C) (D137/D138)	H2	3/5
S21	239	Drum Motor Encoder (C2)	H2	3/5
S22	240	Drum Motor Encoder (C1)	H2	3/5
S23	246	Drum HP Sensor (K) (D137/D138)	H2	3/5
S24	244	Drum Motor Encoder (K2)	I2	3/5
S25	245	Drum Motor Encoder (K1)	I2	3/5
S35	223	Waste Toner Bottle Motor Lock Senser	G9,G10	3/5
S36	226	Waste Toner Bottle Full Sensor	G9,G10	3/5
S85	191	Fusing Exid Guid Plate Sensor	H15	4/5
S86	198	Paper Exit Relay Sensor	I16	4/5
S87	196	Paper Exit Sensor	I16	4/5
S88	194	Paper Exit Inverter Sensor	J16	4/5
S89	197	Inverter Exit Sensor	J16	4/5
S90	192	Inverter Entrance Junction Gate HP Sensor	J16	4/5
S91	195	Inverter Entrance Sensor	K14	4/5
S104	211	Web End Sensor (D137/D138)	C16	3/5
S105	214	Web Unit Sensor (D137/D138)	D16	3/5
S106	212	Web Unit Separation Sensor (D137/D138)	D16	3/5
S107	201	Heating Roller Roller HP Sensor	G15	3/5
S108	218	Hot Roller Non-contact Sensor	G15	3/5
S109	221	Fusing Belt Smoothing Roller Separation Sensor (D137/D138)	H15	3/5
S110	206	Heating Roller Thermo Pile (Center)	B2	3/5
S111	207	Pressure Roller Thermo Pile (Center)	F15	3/5
S112	217	Fusing Exit Sensor	E15,F15	3/5
S113	209	Pressure Roller Cam Position Sensor	E15	3/5
S114	203	Pressure Roller Cam Sensor	E15	3/5

Symbol	Index No.	Description	P to P	Page
Motors				
M8		Waste Toner Transport Motor		
M9	254	Development Motor (Y)	A15	1/5
M10	252	Development Motor (M)	B15	1/5
M11	250	Development Motor (C)	B15	1/5
M12	248	Development Motor (K)	B15/C15	1/5
M17	253	Drum Cleaning Motor (Y)	B2	3/5
M18	251	Drum Cleaning Motor (M)	C2	3/5
M19	249	Drum Cleaning Motor (C)	C2	3/5
M20	247	Drum Cleaning Motor (K)	D2	3/5
M21	228	Drum Motor (Y)	D2	3/5
M22	233	Drum Motor (M)	E2	3/5
M23	238	Drum Motor (C)	E2	3/5
M24	243	Drum Motor (K)	E2,F2	3/5
M25	224	Waste Toner Bottle Motor	F9,F10	3/5
M45	189	Inverter Exit Motor	H13	4/5
M46	199	Paper Exit Motor	A15	4/5
M47	190	Inverter Entrance Motor	B15	4/5
M48	188	Inverter Entrance Junction Gate Motor	D12	4/5
M58	213	Web Motor (D137/D138)	C16	3/5
M59	220	Web Unit Separation Motor (D137/D138)	D16	3/5
Switches				
SW4	200	Heat Pipe Unit Set Switch	E11	1/5
SW9	225	Waste toner Bottle Set Switch	G9,G10	3/5
SW28	193	Exit Guid Plate Switch (Upper)	K16	4/5
SW29	186	Exit Guid Plate Switch (Left)	K16	4/5
Lamp				
L6	210	Pressure Roller Lamp	G14	3/5
Heater				
H6	216	IH Coil	H14	3/5
Solenoid				
SOL9	187	Inverter Exit Solenoid	C12,D12	4/5
Thermistors				
TH4	222	Waste Toner Transport Thermistor	J9	1/5
TH5	215	Hot Roller Thermistor (D137/D138)	G15	3/5
TH6	204	Heating Roller Thermistor (Front)	H15	3/5
Thermostats				
TS1	219	Heating Roller Center Thermostat	H14	3/5
TS2	208	Pressure RollerThermostat	F14,F15	3/5

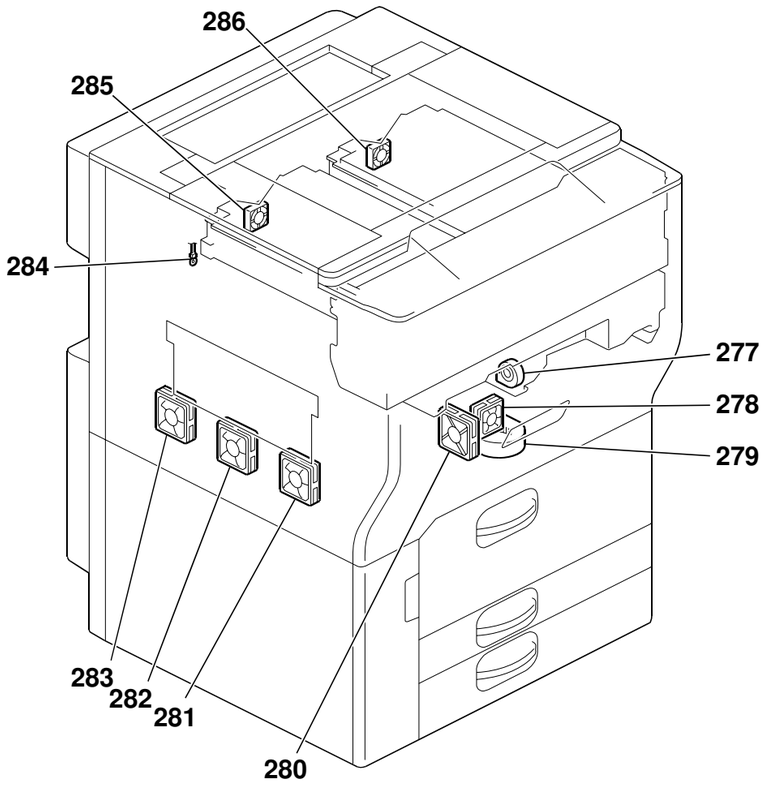
D135/D136/D137/D138 ELECTRICAL COMPONENT LAYOUT (5/7)



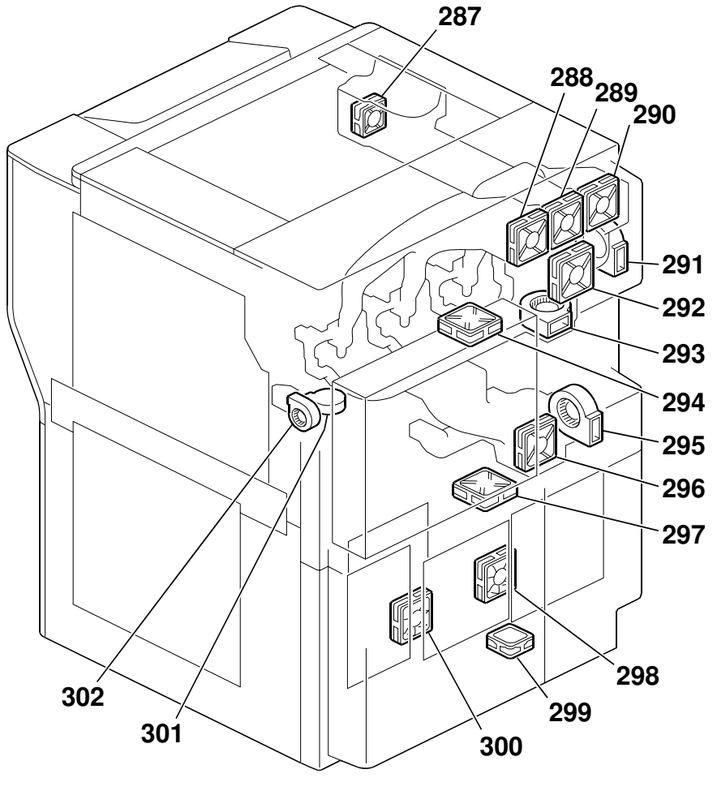
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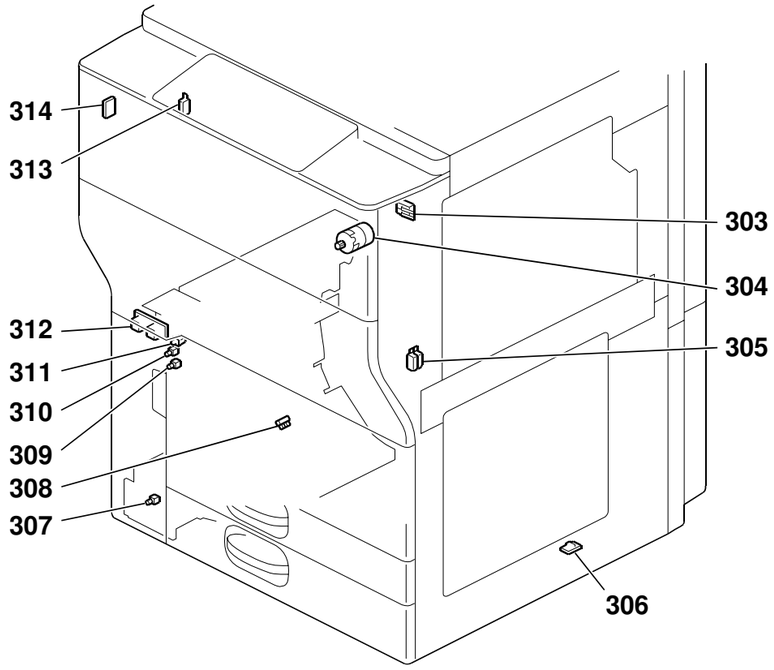
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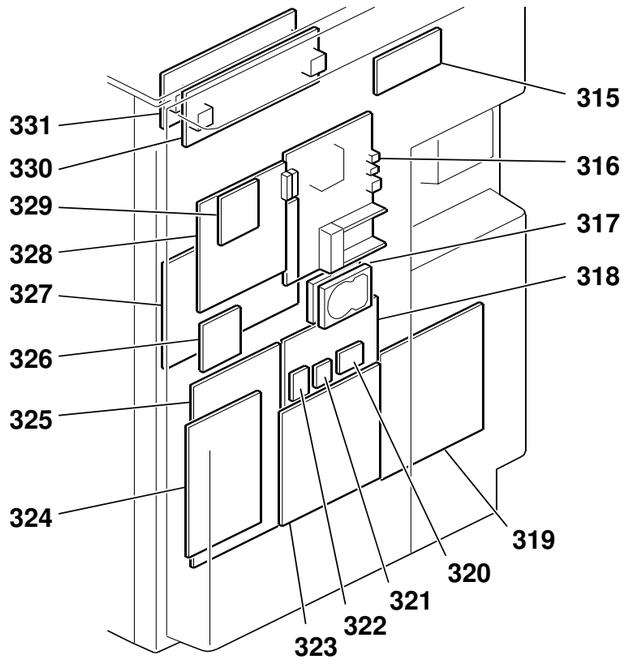
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Symbol	Index No.	Description	P to P	Page
Sensors				
S34	255	Waste Toner Transport Motor Sensor	E11	1/5
S118	260	PTR Drive Motor Encorder 1	D11	1/5
S119	259	PTR Drive Motor Encorder 2	D11	1/5
Motors				
M8	256	Waste Toner Transport Motor	F11,G11	1/5
M14	263	ITB Lift Motor	D11	1/5
M15	258	PTR Drive Motor	C11	1/5
M27	262	By-pass Paper Feed Motor	G2	4/5
M28	269	1st Tray Lift Motor	B9	4/5
M32	275	1st Tray Papar Feed Motor	G2	4/5
M33	276	1st Tray Transport Motor	H2	4/5
M35	274	Vertical Transport Motor	B6	4/5
M36	273	2nd Tray Paper Feed Motor	B6	4/5
M37	272	2nd Tray Transport Motor	B6,C6	4/5
M38	271	3rd Tray Paper Feed Motor	C6	4/5
M39	270	3rd Tray Transport Motor	C6,D6	4/5
M40	268	Tandem Tray Rear Fence Motor	C9	4/5
M41	261	Main Relay Motor	F2	4/5
M54	266	Fusing Belt Smoothing Roller Contact Motor (D137/D138)	J16	1/5
M55	265	Fusing Belt Smoothing Roller Motor (D137/D13	I15	1/5
M56	257	Fusing Motor	C15	1/5
M57	264	Fusing Roller Lift Motor	G11	1/5
Fan Motors				
FAN1	301	ID Sensor Cleaning Fan	J10	1/5
FAN2	297	Controller Box Intake Fan		
FAN3	294	Controller Box Exhaust Fan	J7	1/5
FAN4	285	Laser Unit Cooling Fan (L)	I11	1/5
FAN5	286	Laser Unit Cooling Fan (R)	H11,I11	1/5
FAN6	296	PTR/Fusing Exhaust Fan	F15	1/5
FAN7	292	Drive Motors Exhaust Fan (L)	F15	1/5
FAN8	291	Fusing Unit Exhaust Fan	F15	1/5
FAN9	279	Pressure Roller Intake Fan (D137/D138)	C13	4/5
FAN10	293	Ozone Exhaust Fan	E15	1/5
FAN11	287	Heat Pipe Panel Intake Fan	H6,H7	1/5
FAN12	290	Heat Pipe Panel Exhaust Fan	E15	1/5
FAN13	280	Heat Pipe Roller Cooling Fan	B13	4/5
FAN14	288	Development Exhaust Fan (R)	D15	1/5
FAN15	289	Development Exhaust Fan (L)	E15	1/5
FAN16	281	Duplex Exhaust Fan (Front)	D15	1/5
FAN17	282	Duplex Exhaust Fan (Center)	D15	1/5
FAN18	283	Duplex Exhaust Fan (Rear)	C15	1/5
FAN19	300	PCU Fan (R)	E9,F9	3/5
FAN20	298	PCU Fan (L)	F9	3/5
FAN21	278	IH Coil Cooling Fan	B13,C13	4/5
FAN26	301	ITB Motor Cooling Fan	J10	1/5
FAN27	277	ITB Cleaning Fan	I15,I16	3/5
FAN30	295	Pressure Roller Exhaust Fan (D137/D138)	I15	1/5
FAN31	299	IH Coil Cooling Fan	A11	3/5
Solenoid				
SOL2	267	Left Tray Lock Solenoid (1st Tray)	C9	4/5
Thermistor				
TH3	284	Temperature/Humidity Sensor	I7	1/5

D135/D136/D137/D138 ELECTRICAL COMPONENT LAYOUT (6/7)



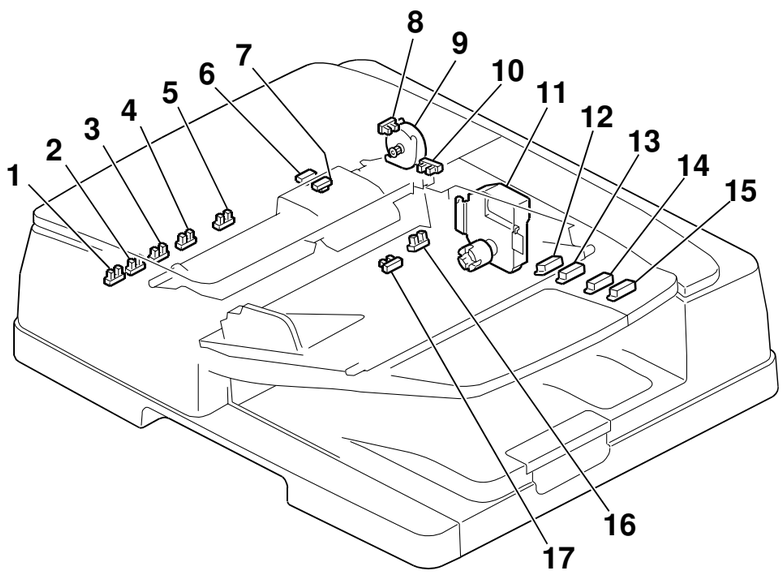
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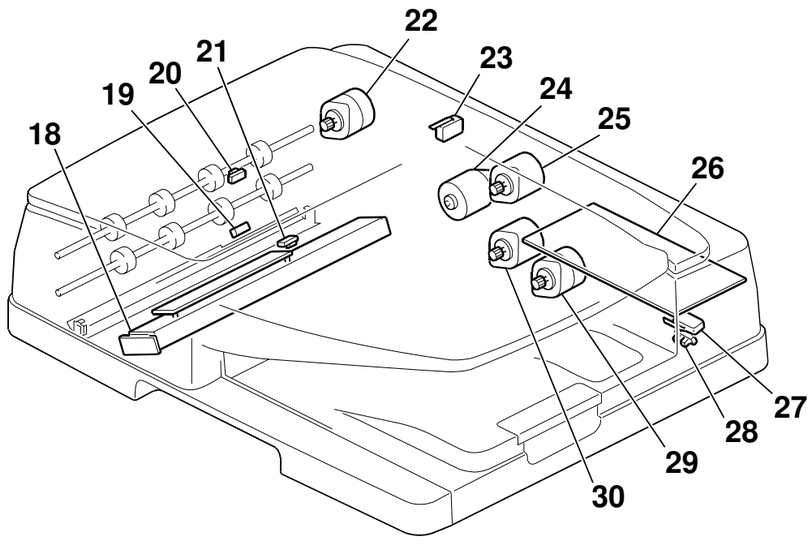
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Symbol	Index No.	Description	P to P	Page
PCBs				
PCB1	328	IPU	F5	1/5
PCB2	326	BCU	B6,B7	1/5
PCB3	329	IPU-SUB	J4	1/5
PCB7	316	Controller Board	E11	2/5
PCB8	322	OKB	J11	1/5
PCB9	320	FDB-M (D137/D138)	J15	1/5
PCB10	321	AC Relay Board (D137/D138)	J15	1/5
PCB11	327	IOB	F13	1/5
PCB12	325	PSU-ECO	D9,D10	3/5
PCB13	318	PSU-FW	C9,C10	3/5
PCB14	319	AC Drive Board	C12	3/5
PCB17	323	IH Coil Inverter	H11	3/5
PCB18	324	PFB	F4,F10	4/5
PCB19	312	LSB	G9	4/5
PCB33	330	H.V.P.P. (C,K)	D5,D6	3/5
PCB34	331	H.V.P.P. (Y,M)	C5,C6	3/5
PCB38	315	Potential Sensor Board		
Sensors				
S42	308	Purged Paper Sensor	F9	4/5
S98	306	ITB Temperature/Humidity Sensor	D6	4/5
Motor				
M49	304	Duplex Inverter Motor	A9	4/5
Switches				
SW1	314	Main Switch	H7	1/5
SW2	313	Face Plate Set Switch (D137/D138)	G6	1/5
SW10	303	Toner Supply Unit Set Switch 1 (D137/D138)	D8	3/5
SW11		Toner Supply Unit Set Swithc 2 (D137/D138)	E8	3/5
SW20	305	Drawer Unit Set Switch 1	H6	4/5
SW21		Drawer Unit Set Switch 2	H6	4/5
SW23	311	Front Lower cover Switch	G9	4/5
LEDs				
LED2	309	Lower Left Cover LED	F9	4/5
LED4	310	Purge Upper Guide Plate LED	F9	4/5
LED5	307	Purge Lower Guide Plate LED	F9	4/5
Others				
HDD1	317	HDD	C13	2/5
HDD2				

D135/D136/D137/D138 ELECTRICAL COMPONENT LAYOUT (7/7) ADF



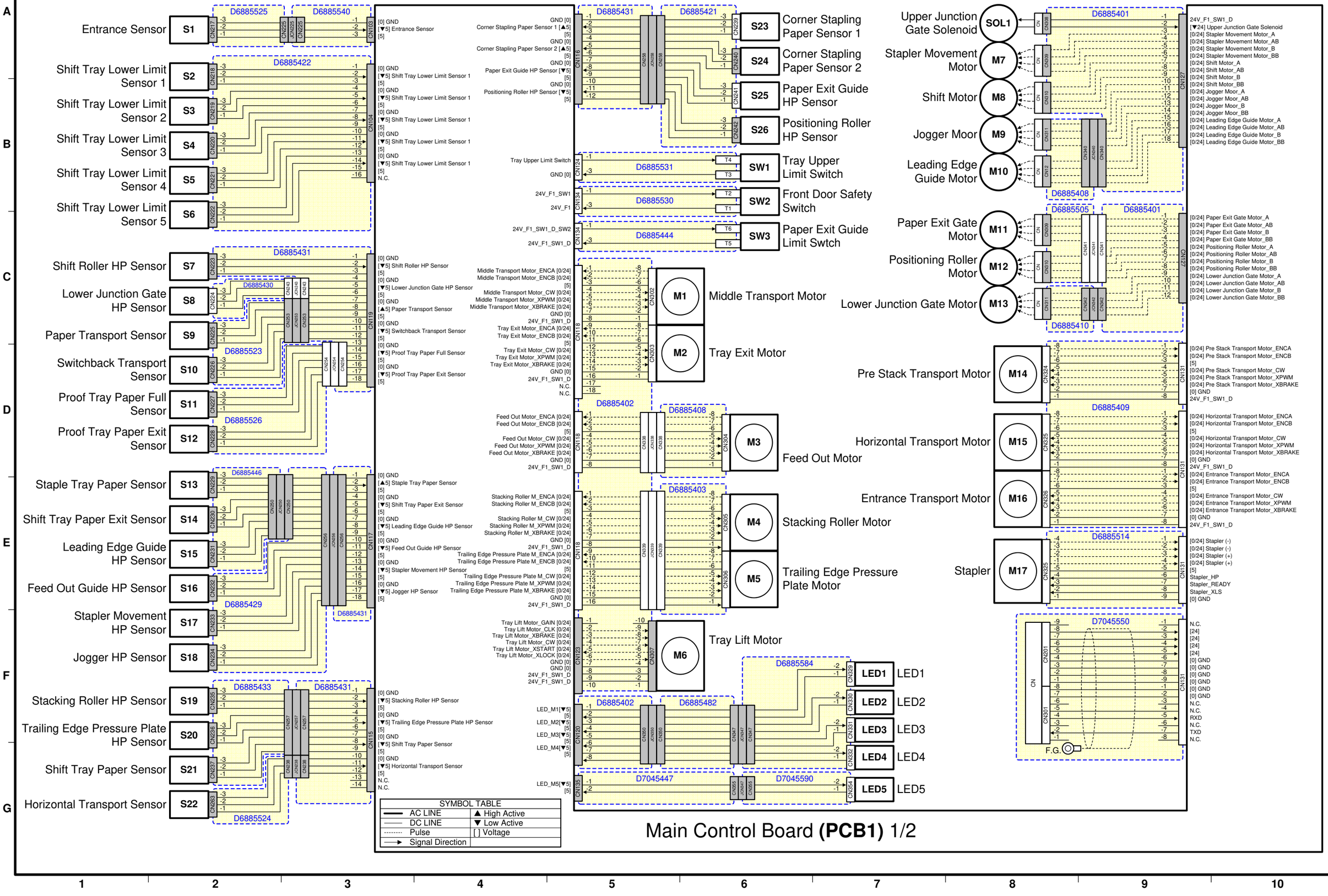
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Symbol	Index No.	Description	P to P	Page
Sensors				
S1	1	Original Width Sensor 5	A2	5/5
S2	2	Original Width Sensor 4	A2	5/5
S3	3	Original Width Sensor 3	B2	5/5
S4	4	Original Width Sensor 2	B2	5/5
S5	5	Original Width Sensor 1	B2	5/5
S6	7	Skew Correction Sensor	C2	5/5
S7	6	Seperation Sensor	D2	5/5
S8	10	Pick-up Roller HP Sensor	D2	5/5
S9	8	Bottom Plate Position Sensor	D2	5/5
S10	19	Interval Sensor	D2	5/5
S11	21	Exit Sensor	E2	5/5
S12	20	Registration Sensor	E2	5/5
S13	28	APS Sensor	A9	5/5
S14	15	Original Length Sensor (LG)	A9	5/5
S15	14	Original Length Sensor (A4)	B9	5/5
S16	13	Original Length Sensor (B5)	B9	5/5
S17	17	Bottom Plate HP Sensor	B9	5/5
S18	16	Original Set Sensor	B9-C9	5/5
S19	12	Original Length Sensor (LT/A4)	C9	5/5
S20	18	CIS	F2	5/5
Motors				
M1	9	Pick-up Motor	B2	5/5
M2	22	Relay Motor	C2	5/5
M3	24	Feed Motor	C9	5/5
M4	25	Pull-out Motor	D9	5/5
M5	30	Transport Motor	D9	5/5
M6	29	Exit Motor	E9	5/5
M7	11	Bottom Plate Motor	E9	5/5
Switches				
SW1	23	Feed Cover Switch	F9	5/5
SW2	27	DF Position Sensor	F9	5/5
PCB				
PCB1	26	Main Control Board (ADF)	D5-D6	5/5

FINISHER/BOOKLET FINISHER (D703/D704) POINT TO POINT DIAGRAM (1/2)



FINISHER/BOOKLET FINISHER (D703/D704) POINT TO POINT DIAGRAM (2/2)

Booklet Finisher (D704)

Booklet Paper Sensor (Upper) S27 — CN202 — D6885564 — CN248 — D6885563 — CN249 — CN108
Folding Blade HP Sensor S28 — CN203 — D6885564 — CN248 — D6885563 — CN249 — CN108
Booklet Guide Sensor S29 — CN270 — CN604 — D6885545 — CN248 — D6885563 — CN249 — CN108
Booklet Adjustment HP Sensor S30 — CN205 — CN260 — D6885566 — CN248 — D6885563 — CN249 — CN108

D6885461

[0] GND
[▲5] Booklet Paper Sensor (Upper)
[5]
[0] GND
[▼5] Folding Blade HP Sensor
[5]
[0] GND
[▼5] Booklet Guide Sensor
[5]
[0] GND
[▼5] Booklet Adjustment HP Sensor
[5]

Booklet Paper Sensor (Lower) S31 — CN206 — D6885570 — CN244 — D6885563 — CN249 — CN109
Booklet Jogger HP Sensor S32 — CN208 — D6885569 — CN245 — CN249 — CN109
Folding Blade Cam HP Sensor S33 — CN209 — CN260 — D6885467 — CN245 — CN249 — CN109
Bottom Paper Exit Sensor S34 — CN210 — D6885465 — CN246 — CN247 — CN249 — CN109
Booklet Bottom Fence HP Sensor S35 — CN211 — D6885468 — CN246 — CN247 — CN249 — CN109

[0] GND
[▲5] Booklet Paper Sensor (Lower)
[5]
N.C.
N.C.
N.C.
[0] GND
[▼5] Booklet Jogger HP Sensor
[5]
[0] GND
[▼5] Folding Blade Cam HP Sensor
[5]
[0] GND
[▼5] Bottom Paper Exit Sensor
[5]
[0] GND
[▼5] Booklet Bottom Fence HP Sensor
[5]
N.C.
N.C.

Booklet Paper Full Sensor 1 S36 — CN212 — D6885463 — CN114
Booklet Paper Full Sensor 2 S37 — CN213 — D6885463 — CN114

[0] GND
[▼5] Booklet Paper Full Sensor 1
[5]
[0] GND
[▼5] Booklet Paper Full Sensor 2
[5]

Movement Roller Transport Motor M18 — CN343 — D6885471 — CN110

[0/24] Movement Roller Transport Motor _ENCA
[0/24] Movement Roller Transport Motor _ENCB
[5]
[0/24] Movement Roller Transport Motor _CW
[0/24] Movement Roller Transport Motor _XPWM
[0/24] Movement Roller Transport Motor _XBRAKE
[0] GND
24V_F1_SW1_D

Booklet Stapler M19 — CN317 — D6885477 — CN344 — D6885475 — CN349 — D6885471 — CN349 — CN111

[0/24] Booklet Stapler (+)
[0/24] Booklet Stapler (+)
[0/24] Booklet Stapler (-)
[0/24] Booklet Stapler (-)
[0] GND
[5]
Booklet Stapler_XHP
Booklet Stapler_XLS1
Booklet Stapler_XLS2
[0] GND

Press Folding Motor M20 — CN319 — D6885475 — CN345 — CN345 — CN112
Folding Transport Motor M21 — CN318 — D6885475 — CN345 — CN345 — CN112

Press Folding Motor_A
Press Folding Motor_AB
Press Folding Motor_B
Press Folding Motor_BB
Folding Transport Motor_A
Folding Transport Motor_AB
Folding Transport Motor_B
Folding Transport Motor_BB

Booklet Guide Motor M22 — CN349 — D6885475 — CN346 — D6885471 — CN346 — CN113
Booklet Jogger Motor M23 — CN346 — D6885475 — CN346 — D6885471 — CN346 — CN113
Booklet Fence Motor M24 — CN34 — D6885475 — CN346 — D6885471 — CN346 — CN113

Booklet Guide Motor_A
Booklet Guide Motor_AB
Booklet Guide Motor_B
Booklet Guide Motor_BB
Booklet Jogger Motor_A
Booklet Jogger Motor_AB
Booklet Jogger Motor_B
Booklet Jogger Motor_BB
Booklet Fence Motor_A
Booklet Fence Motor_AB
Booklet Fence Motor_B
Booklet Fence Motor_BB
N.C.
N.C.
N.C.
N.C.

Main Control Board (PCB1) 2/2

SYMBOL TABLE

AC LINE	▲ High Active
DC LINE	▼ Low Active
Pulse	[ ] Voltage
Signal Direction	

SHIFT_JOGGER_ESC_HP, SHIFT_JOGGER_R_HP, SHIFT_JOGGER_F_HP, SHIFT_JOGGER_ESC_CW, SHIFT_JOGGER_ESC_CLK, SHIFT_JOGGER_R_CW, SHIFT_JOGGER_R_CLK, SHIFT_JOGGER_F_CW, SHIFT_JOGGER_F_CLK, GND [5], GND [0], GND [0], 24V_SW, 24V_SW, GND [0]

N.C., N.C., RXD_OP, GND [0], TXD_OP, GND [5], GND [5], N.C., GND [0], GND [0], GND [0], GND [0], GND [0], 24V_F2, 24V_F2, 24V_F2, 24V_F2, 24V_F2

D7045448 — CN102 — CN910 — JCN910 — Output Jogger Unit *Option

D7045580 — CN106 — CN105 — CN262 — CN261 — FDZ 11028534 — 9-bin Mail Box *Option

D6885541 — CN130 — CN601 — CN602 — CN603 — CN132

[5]
GND [0]
PUNCH_XFILLED
XPUNCH REG
PUNCH REG_HP
PUNCH SLDE _XHP
PUNCH_HP
PUNCH PS
PUNCH_SW1
PUNCH_SW2
PUNCH_XSET
N.C.
GND [0]
GND [0]

PUNCH_M_IN1
PUNCH_M_IN2
PUNCH SLIDE _M_CLK
PUNCH SLIED_M_ENA
PUNCH SLIDE_M_CW
PUNCH SLIDE_M_REF
PUNCH REG_M_CLK
PUNCH REG_ENA
PUNCH REG_M_CW
PUNCH REG_M_REF
24V_F1_SW1_D
24V_F1_SW1_D
24V_F1_SW1_D
GND [0]
GND [0]
GND [0]

D6885596 — CN618 — JCN618 — CN604 — PCB — CN601 — CN600 — D6885599 — D6885598 — CN617 — JCN617 — CN617 — D6885597

GND [0]
Punch Hopper Full Sensor [▼5]
[5]
[5]
Paper Position Side Sensor [▼5]
GND [0]
GND [0]
Punch HP Sensor [▼5]
[5]
GND [0]
Punch Encoder Sensor [0/5]
[5]

S38 Punch Hopper Full Sensor
S39 Paper Position Side Sensor
S40 Punch HP Sensor
S41 Punch Encoder Sensor

Main Board (Punch Unit) (PCB2)

Punch Encoder Sensor_A [▼24] — CN605 — M25 Punch Encoder Motor
Punch Encoder Sensor_B [▼24] — CN605 — M25 Punch Encoder Motor

Punch Drive Motor_A [0/24]
Punch Drive Motor_AB [0/24]
Punch Drive Motor_B [0/24]
Punch Drive Motor_BB [0/24]
N.C.
N.C.
GND [0]
Punch Movement HP Sensor
[▼5]
[5]

D6885542 — CN613 — JCN613 — CN — CN606 — CN614 — M26 Punch Drive Motor — S42 Punch Movement HP Sensor

Paper Position Sensor Side Motor_A [0/24]
Paper Position Sensor Side Motor_AB [0/24]
Paper Position Sensor Side Motor_B [0/24]
Paper Position Sensor Side Motor_BB [0/24]
N.C.
GND [0]
Paper Position Side HP Sensor [▼5]
[5]

D6885543 — CN615 — JCN615 — CN — CN607 — CN616 — M27 Paper Position Sensor Side Motor — S43 Paper Position Side HP Sensor

< Punch Unit (D706) *Option >

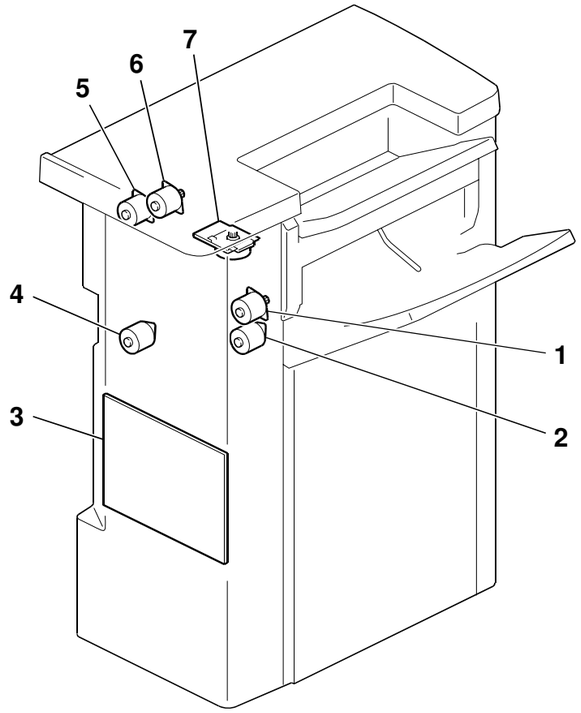
D6885586 — CN333 — CN334 — CN335 — CN336 — CN337 — CN353

LED6 Booklet Unit LED 1
LED7 Booklet Unit LED 2
LED8 Booklet Unit LED 3
LED9 Booklet Unit LED 4
LED10 Booklet Unit LED 5
LED11 Booklet Unit LED 6

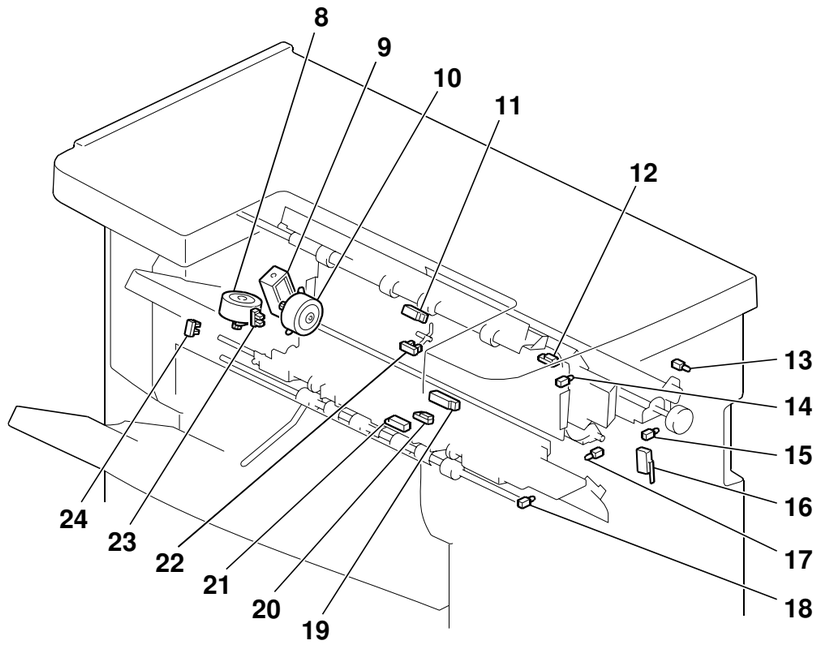
LED_B1 [▼5] — D6885461 — CN352 — JCN352 — CN352 — CN107
LED_B2 [▼5] — D6885463 — CN351 — JCN351 — CN351 — CN107
LED_B3 [▼5] — D6885489 — CN348 — JCN348 — CN348 — CN107
LED_B4 [▼5]
LED_B5 [▼5]
LED_B6 [▼5]
[5]
N.C.
N.C.

Booklet Finisher (D704)

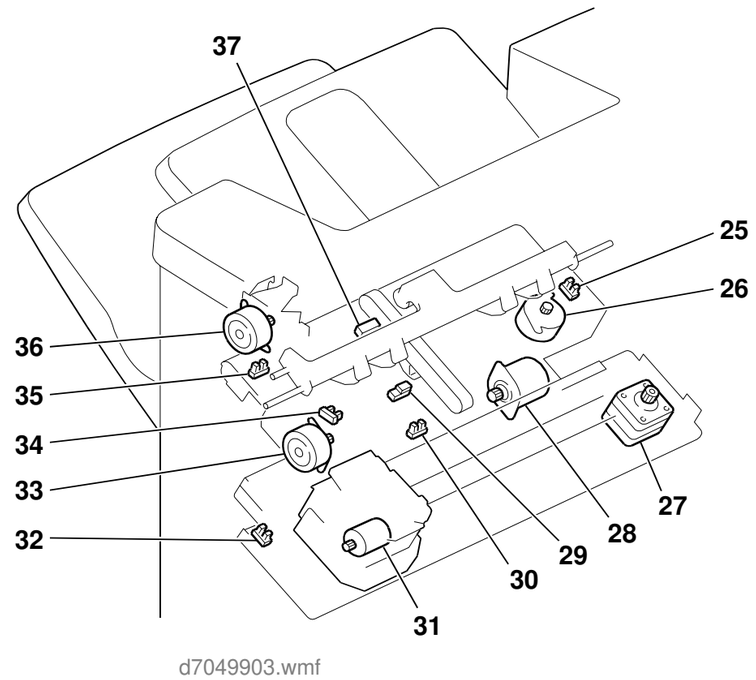
FINISHER/BOOKLET FINISHER (D703/D704) ELECTRICAL COMPONENT LAYOUT (1/2)



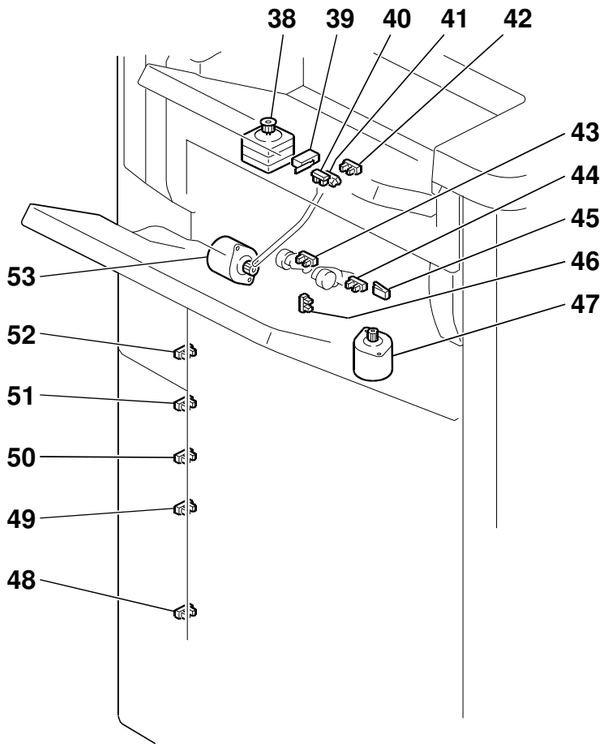
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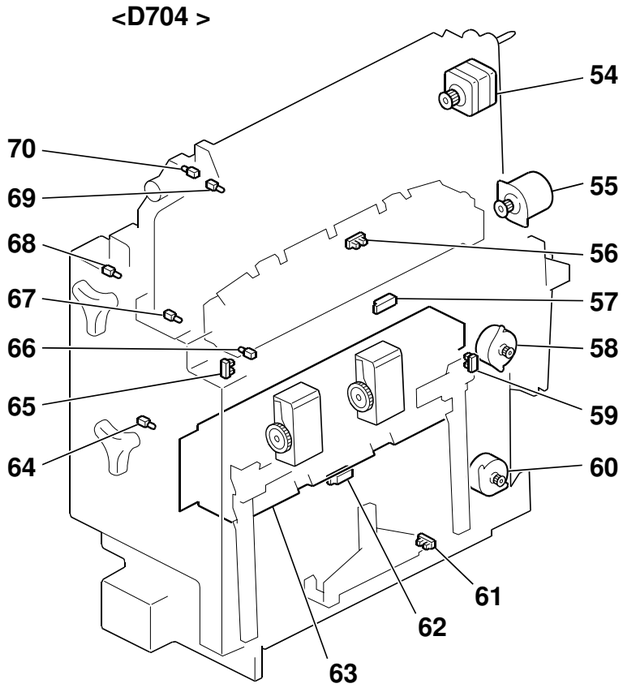
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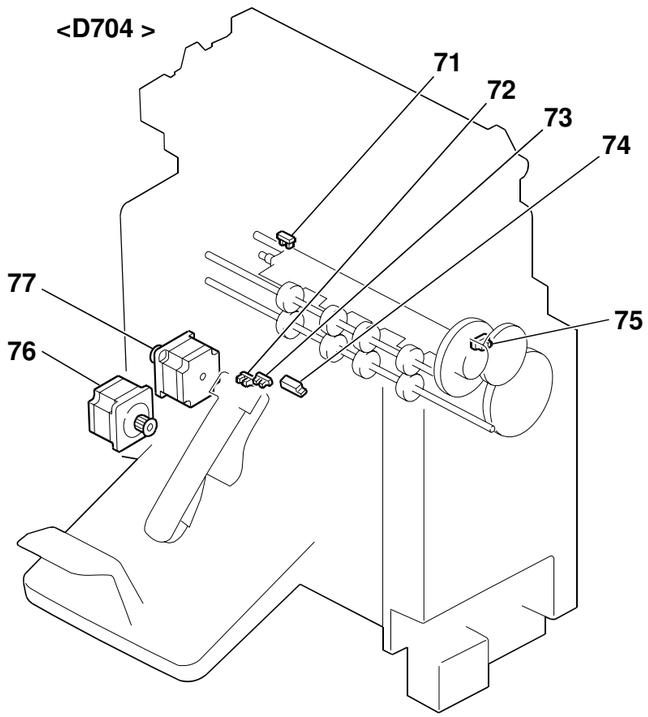
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d7049904.wmf



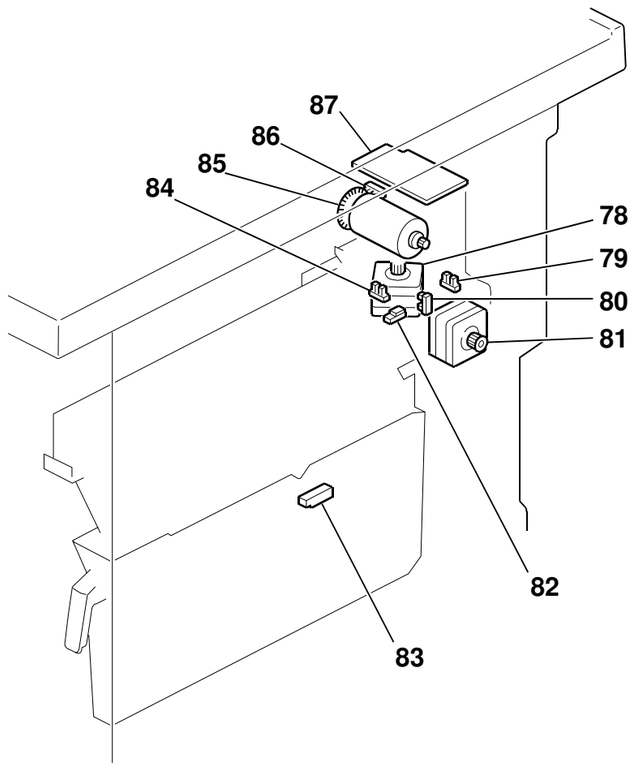
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FINISHER/BOOKLET FINISHER (D703/D704) ELECTRICAL COMPONENT LAYOUT (2/2)

< D706 Punch Unit (Option) >



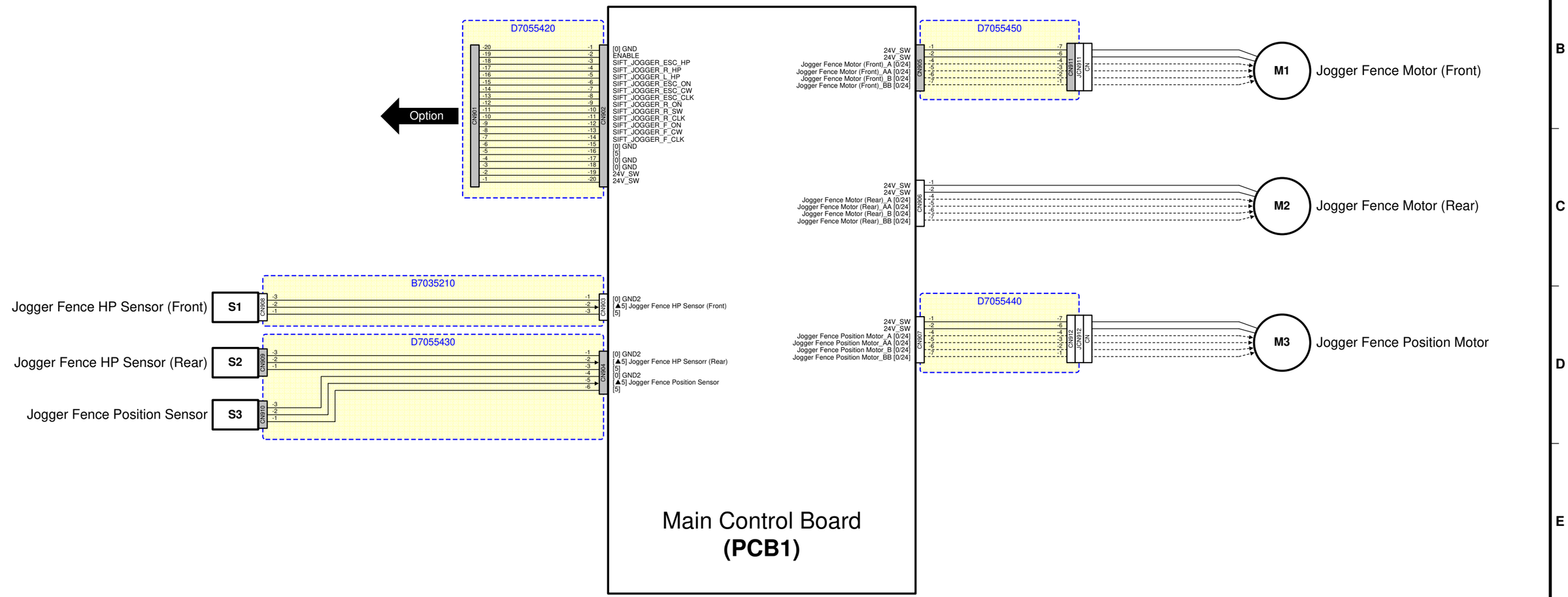
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Symbol	Index No.	Description	P to P	Page
PCBs				
PCB1	3	Main Control Board	G6,A6	1/2,2/2
PCB2	87	Main Board (Punch Unit) (D706)	D7	2/2
Sensors				
S1	12	Entrance Sensor	A1	1/2
S2	52	Shift Tray Lower Limit Sensor 1	A1,B2	1/2
S3	51	Shift Tray Lower Limit Sensor 2	B2	1/2
S4	50	Shift Tray Lower Limit Sensor 3	B2	1/2
S5	49	Shift Tray Lower Limit Sensor 4	B2	1/2
S6	48	Shift Tray Lower Limit Sensor 5	B2,C2	1/2
S7	24	Shift Roller HP Sensor	C2	1/2
S8	23	Lower Junction Gate HP Sensor	C2	1/2
S9	21	Paper Transport Sensor	C2	1/2
S10	20	Switchback Transport Sensor	D2	1/2
S11	11	Proof Tray Paper Full Sensor	D2	1/2
S12	22	Proof Tray Paper Exit Sensor	D2	1/2
S13	29	Staple Tray Paper Sensor	E2	1/2
S14	37	Shift Tray Paper Exit Sensor	E2	1/2
S15	34	Leading Edge Guide HP Sensor	E2	1/2
S16	30	Feed Out Guide HP Sensor	E2	1/2
S17	32	Stapler Movement HP Sensor	F2	1/2
S18	25	Jogger HP Sensor	F2	1/2
S19	35	Stacking Roller HP Sensor	F2	1/2
S20	43	Trailing Edge Pressure Plate HP Sensor	F2	1/2
S21	44	Shift Tray Paper Sensor	G2	1/2
S22	19	Horizontal Transport Sensor	G2	1/2
S23	40	Corner Stapling Paper Sensor 1	A6	1/2
S24	41	Corner Stapling Paper Sensor 2	A6	1/2
S25	42	Paper Exit Guide HP Sensor	B6	1/2
S26	46	Positioning Roller HP Sensor	B6	1/2
S27	57	Booklet Paper Sensor (Upper) (D704)	A2	2/2
S28	71	Folding Blade HP Sensor (D704)	A2	2/2
S29	65	Booklet Guide Sensor (D704)	B2	2/2
S30	56	Booklet Adjustment HP Sensor (D704)	B2	2/2
S31	62	Booklet Paper Sensor (Lower) (D704)	B2	2/2
S32	59	Booklet Jogger HP Sensor (D704)	C2	2/2
S33	75	Folding Blade Cam HP Sensor (D704)	C2	2/2
S34	74	Bottom Paper Exit Sensor (D704)	C2	2/2
S35	61	Booklet Bottom Fence HP Sensor (D704)	C2	2/2
S36	73	Booklet Paper Full Sensor 1 (D704)	D2	2/2
S37	72	Booklet Paper Full Sensor 2 (D704)	D2	2/2
S38	83	Punch Hopper Full Sensor (D706)	C9	2/2
S39	82	Paper Position Side Sensor (D706)	C9	2/2
S40	84	Punch HP Sensor (D706)	D9	2/2
S41	86	Punch Encoder Sensor (D706)	D9	2/2
S42	79	Punch Movement HP Sensor (D706)	E9	2/2
S43	80	Paper Position Side HP Sensor (D706)	F9	2/2

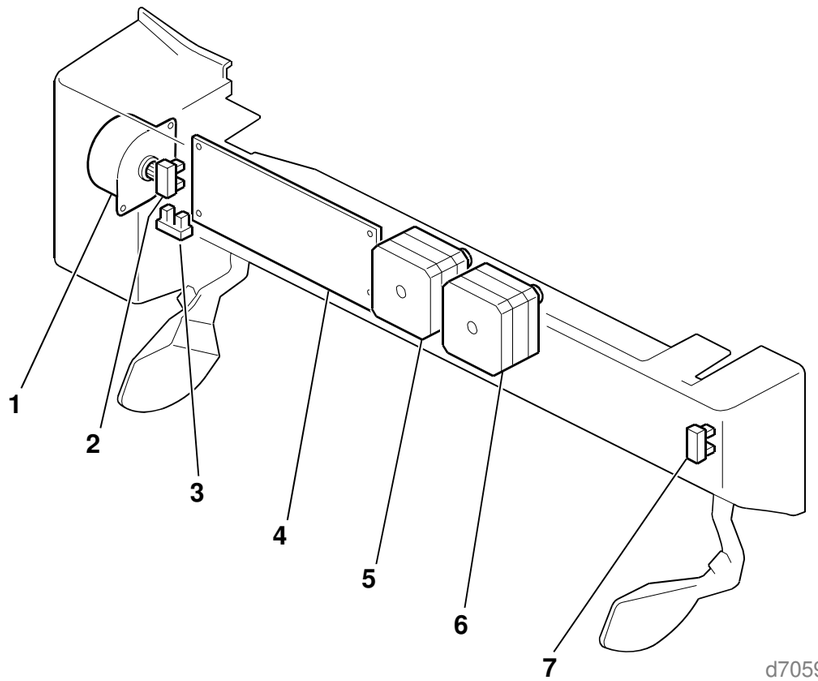
Symbol	Index No.	Description	P to P	Page
Motors				
M1	2	Middle Transport Motor	C6	1/2
M2	1	Tray Exit Motor	C6,D6	1/2
M3	28	Feed Out Motor	D6	1/2
M4	36	Stacking Roller Motor	E6	1/2
M5	47	Trailing Edge Pressure Plate Motor	E6	1/2
M6	7	Tray Lift Motor	F6	1/2
M7	27	Stapler Movement Motor	A8	1/2
M8	8	Shift Motor	B8	1/2
M9	26	Jogger Moor	B8	1/2
M10	33	Leading Edge Guide Motor	B8	1/2
M11	38	Paper Exit Gate Motor	B8	1/2
M12	53	Positioning Roller Motor	B8	1/2
M13	10	Lower Junction Gate Motor	B8	1/2
M14	4	Pre Stack Transport Motor	D8	1/2
M15	6	Horizontal Transport Motor	D8	1/2
M16	5	Entrance Transport Motor	E8	1/2
M17	31	Stapler	E8	1/2
M18	55	Movement Roller Transport Motor (D704)	D2,E2	2/2
M19	63	Booklet Stapler (D704)	E2,E2	2/2
M20	77	Press Folding Motor (D704)	F2	2/2
M21	76	Folding Transport Motor (D704)	F2	2/2
M22	54	Booklet Guide Motor (D704)	F2	2/2
M23	58	Booklet Jogger Motor (D704)	G2	2/2
M24	60	Booklet Fence Motor (D704)	G2	2/2
M25	85	Punch Encoder Motor (D706)	D9	2/2
M26	78	Punch Drive Motor (D706)	E9	2/2
M27	81	Paper Position Sensor Side Motor (D706)	E9	2/2
LEDs				
LED1	14	LED1	F7	1/2
LED2	18	LED2	F7	1/2
LED3	17	LED3	F7	1/2
LED4	15	LED4	G7	1/2
LED5	13	LED5	G7	1/2
LED6	64	Booklet Unit LED 1	F9	2/2
LED7	66	Booklet Unit LED 2	F9	2/2
LED8	67	Booklet Unit LED 3	F9,G9	2/2
LED9	68	Booklet Unit LED 4	G9	2/2
LED10	69	Booklet Unit LED 5	G9	2/2
LED11	70	Booklet Unit LED 6	G9	2/2
Solenoid				
SOL1	9	Upper Junction Gate Solenoid	A8	1/2
Switches				
SW1	45	Tray Upper Limit Switch	B6	1/2
SW2	16	Front Door Safety Switch	B6	1/2
SW3	39	Paper Exit Guide Limit Swtch	C6	1/2

OUTPUT JOGGER UNIT (D705) POINT TO POINT DIAGRAM

SYMBOL TABLE	
AC LINE	▲ High Active
DC LINE	▼ Low Active
Pulse	[ ] Voltage
Signal Direction	



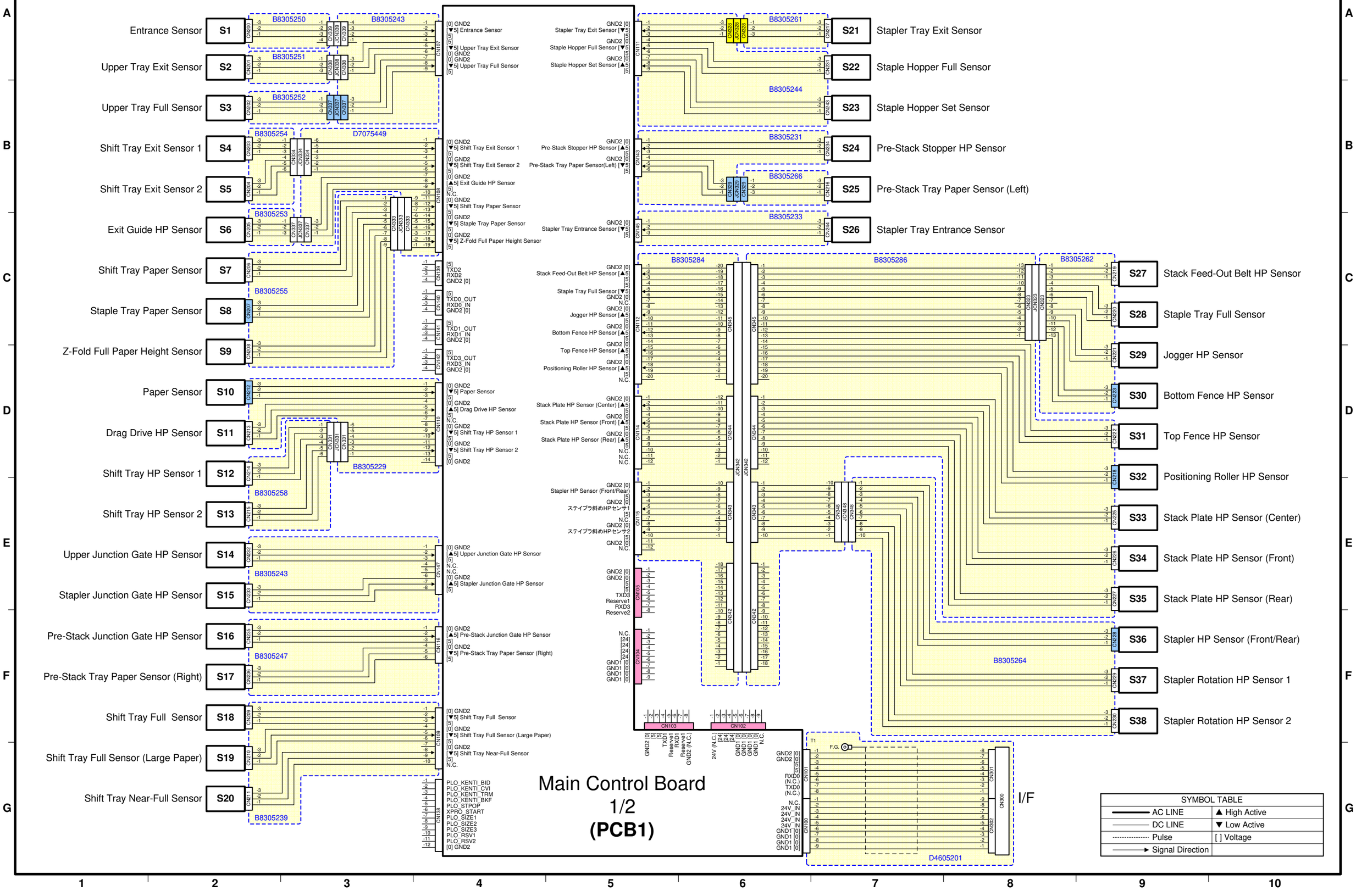
OUTPUT JOGGER UNIT (D705) ELECTRICAL COMPONENT LAYOUT



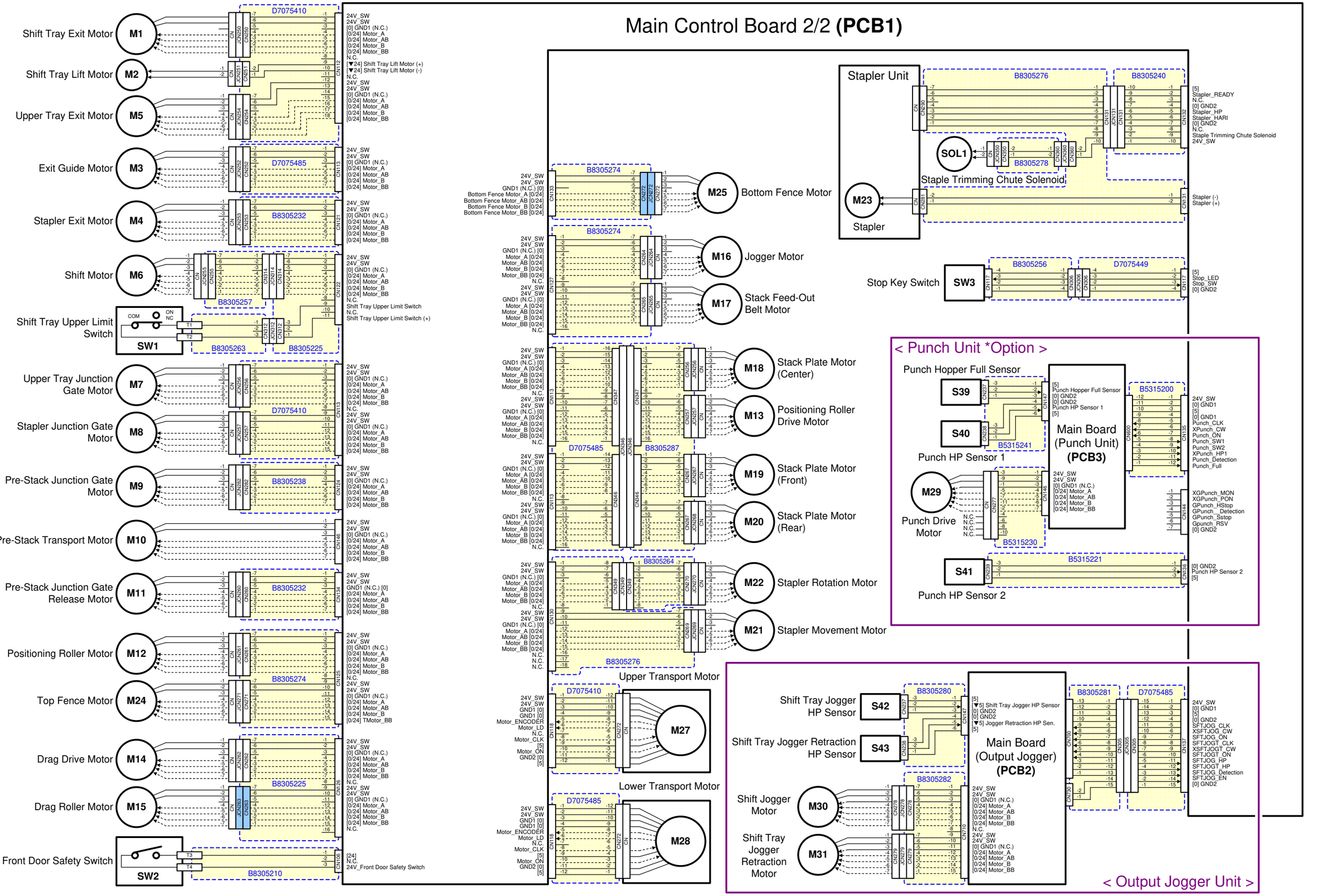
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Symbol	Index No.	Description	P to P
PCB			
PCB1	4	Main Control Board	E5,E6
Sensors			
S1	7	Jogger Fence HP Sensor (Front)	D2
S2	2	Jogger Fence HP Sensor (Rear)	D2
S3	3	Jogger Fence Position Sensor	D2
Motors			
M1	6	Jogger Fence Motor (Front)	B9
M2	5	Jogger Fence Motor (Rear)	C9
M3	1	Jogger Fence Position Motor	D9

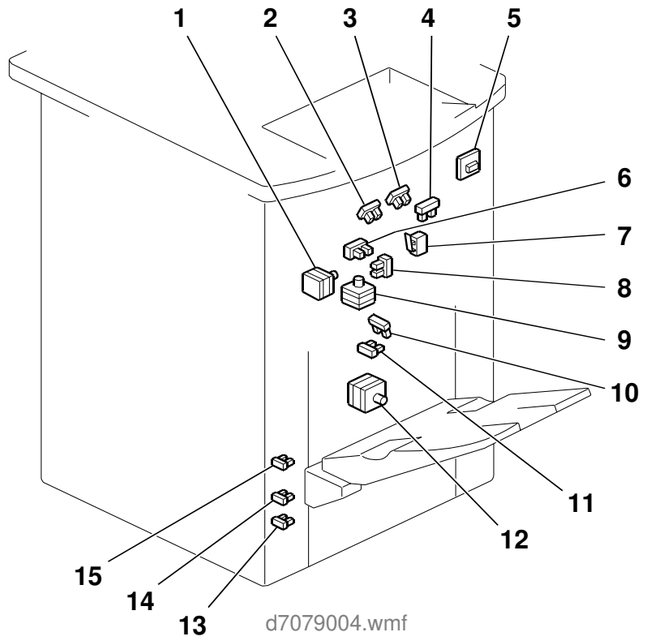
3000 FINISHER (D707) POINT TO POINT DIAGRAM (1/2)



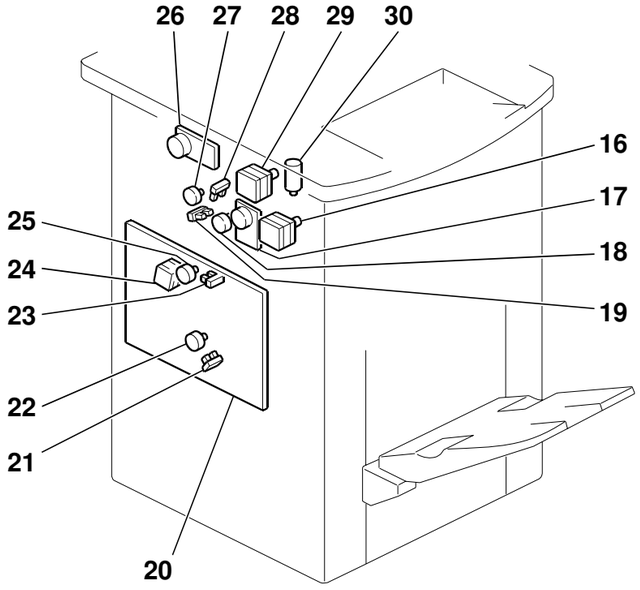
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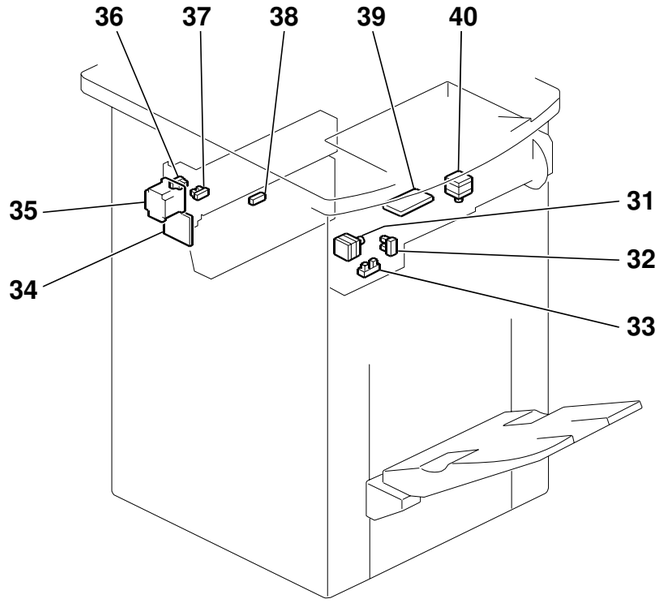
3000 FINISHER (D707) ELECTRICAL COMPONENT LAYOUT



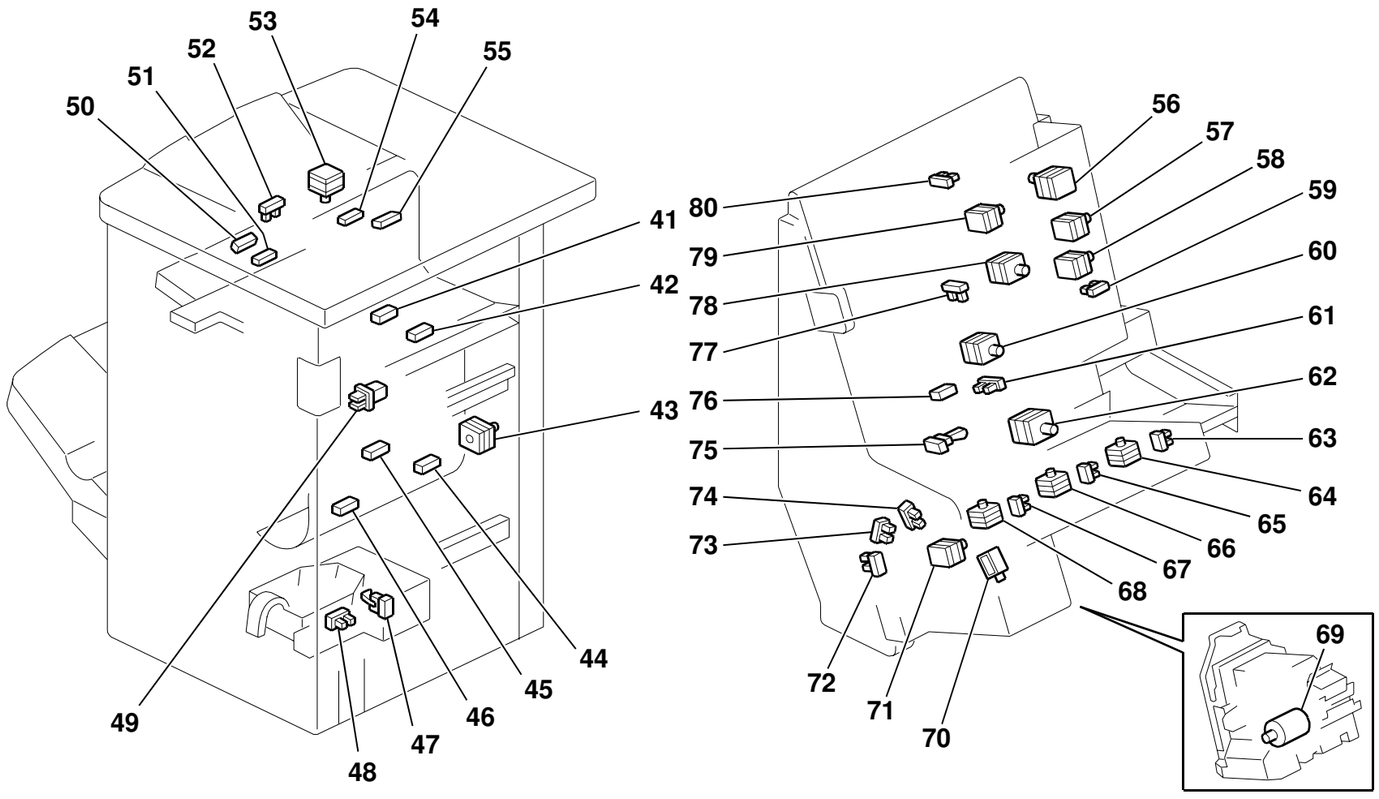
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d7079003.wmf



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d7079002.wmf

d7079001.wmf

Symbol	Index No.	Description	P to P	Page
PCBs				
PCB1	20	Main Control Board	G5,A6	1/2,2/2
PCB2	39	Main Board (Output Jogger)	F8,G8	2/2
PCB3	34	Main Board (Punch Unit) *Option	D9	2/2
Sensors				
S1	42	Entrance Sensor	A2	1/2
S2	55	Upper Tray Exit Sensor	A2	1/2
S3	54	Upper Tray Full Sensor	B2	1/2
S4	50	Shift Tray Exit Sensor 1	B2	1/2
S5	51	Shift Tray Exit Sensor 2	B2	1/2
S6	52	Exit Guide HP Sensor	C2	1/2
S7	3	Shift Tray Paper Sensor	C2	1/2
S8	4	Staple Tray Paper Sensor	C2	1/2
S9	2	Z-Fold Full Paper Height Sensor	D2	1/2
S10	6	Paper Sensor	D2	1/2
S11	8	Drag Drive HP Sensor	D2	1/2
S12	10	Shift Tray HP Sensor 1	D2	1/2
S13	11	Shift Tray HP Sensor 2	E2	1/2
S14	19	Upper Junction Gate HP Sensor	E2	1/2
S15	28	Stapler Junction Gate HP Sensor	E2	1/2
S16	23	Pre-Stack Junction Gate HP Sensor	F2	1/2
S17	45	Pre-Stack Tray Paper Sensor (Right)	F2	1/2
S18	14	Shift Tray Full Sensor	F2	1/2
S19	13	Shift Tray Full Sensor (Large Paper)	G2	1/2
S20	15	Shift Tray Near-Full Sensor	G2	1/2
S21	46	Stapler Tray Exit Sensor	A7	1/2
S22	48	Staple Hopper Full Sensor	A7	1/2
S23	47	Staple Hopper Set Sensor	B7	1/2
S24	21	Pre-Stack Stopper HP Sensor	B7	1/2
S25	44	Pre-Stack Tray Paper Sensor (Left)	B7	1/2
S26	41	Stapler Tray Entrance Sensor	C7	1/2
S27	75	Stack Feed-Out Belt HP Sensor	C9	1/2
S28	76	Staple Tray Full Sensor	C9	1/2
S29	77	Jogger HP Sensor	D6	1/2
S30	61	Bottom Fence HP Sensor	D6	1/2
S31	80	Top Fence HP Sensor	D6	1/2
S32	59	Positioning Roller HP Sensor	D6,E9	1/2
S33	65	Stack Plate HP Sensor (Center)	E9	1/2
S34	67	Stack Plate HP Sensor (Front)	E9	1/2
S35	63	Stack Plate HP Sensor (Rear)	E9	1/2
S36	72	Stapler HP Sensor (Front/Rear)	F9	1/2
S37	74	Stapler Rotation HP Sensor 1	F9	1/2
S38	73	Stapler Rotation HP Sensor 2	F9	1/2
S39	38	Punch Hopper Full Sensor *Option	D8	2/2
S40	37	Punch HP Sensor 1 *Option	D8	2/2
S41	36	Punch HP Sensor 2 *Option	E8	2/2
S42	32	Shift Tray Jogger HP Sensor	F7	2/2
S43	33	Shift Tray Jogger Retraction HP Sensor	F7	2/2

Symbol	Index No.	Description	P to P	Page
Motors				
M1	16	Shift Tray Exit Motor	A2	2/2
M2	30	Shift Tray Lift Motor	A2	2/2
M3	53	Exit Guide Motor	B2	2/2
M4	43	Stapler Exit Motor	B2	2/2
M5	29	Upper Tray Exit Motor	B2	2/2
M6	12	Shift Motor	C2	2/2
M7	18	Upper Tray Junction Gate Motor	D2	2/2
M8	27	Stapler Junction Gate Motor	D2	2/2
M9	25	Pre-Stack Junction Gate Motor	D2	2/2
M10	24	Pre-Stack Transport Motor	E2	2/2
M11	22	Pre-Stack Junction Gate Release Motor	E2	2/2
M12	58	Positioning Roller Motor	F2	2/2
M13	57	Positioning Roller Drive Motor	D6	2/2
M14	9	Drag Drive Motor	F2	2/2
M15	1	Drag Roller Motor	G2	2/2
M16	78	Jogger Motor	C6	2/2
M17	79	Stack Feed-Out Belt Motor	C6	2/2
M18	66	Stack Plate Motor (Center)	C6,D6	2/2
M19	68	Stack Plate Motor (Front)	D6	2/2
M20	64	Stack Plate Motor (Rear)	E6	2/2
M21	62	Stapler Movement Motor	E6,F6	2/2
M22	71	Stapler Rotation Motor	E6	2/2
M23	69	Stapler	B7	2/2
M24	56	Top Fence Motor	F2	2/2
M25	60	Bottom Fence Motor	B6	2/2
M27	26	Upper Transport Motor	F5,F6	2/2
M28	17	Lower Transport Motor	G5,G6	2/2
M29	35	Punch Drive Motor *Option	D7,D8	2/2
M30	40	Shift Jogger Motor	G7	2/2
M31	31	Shift Tray Jogger Retraction Motor	G7	2/2
Solenoid				
SOL1	70	Staple Trimming Chute Solenoid	B8	2/2
Switches				
SW1	7	Shift Tray Upper Limit Switch	C2	2/2
SW2	49	Front Door Safety Switch	G2	2/2
SW3	5	Stop Key Switch	C8	2/2

9-BIN MAILBOX (D708) POINT TO POINT DIAGRAM

SYMBOL TABLE	
AC LINE	▲ High Active
DC LINE	▼ Low Active
Pulse	[ ] Voltage
Signal Direction	

Option

JCN301

D6165550

CN302: N.C., +24V_IN, +24V_IN, +24V_IN, +24V_IN, [0] GND, [0] GND, [0] GND, [0] GND

CN301: [0] GND, [0] GND, [5], [5], RXD, [0] GND, TXD, N.C.

CN100

D6165460

Paper Detect Sensor 9 — S22 — CN221
Paper Overflow Sensor 8 — S21 — CN220
Transport Sensor 5 — S20 — CN219
Paper Overflow Sensor 9 — S23 — CN222

CN232 JCN232 CN232

CN112: [0] GND, [▼5] Paper Detect Sensor 9, [5], [0] GND, [▲5] Paper Overflow Sensor 8, [5], [0] GND, [▼5] Transport Sensor 5, [5], [0] GND, [▲5] Paper Overflow Sensor 9, [5]

D6165450

Paper Detect Sensor 6 — S14 — CN213
Paper Overflow Sensor 5 — S13 — CN212
Paper Detect Sensor 8 — S19 — CN218
Paper Overflow Sensor 7 — S18 — CN217

CN229 JCN229 CN229
CN213 JCN213 CN213

CN113: [0] GND, [▼5] Paper Detect Sensor 6, [5], [0] GND, [▲5] Paper Overflow Sensor 5, [5], [0] GND, [▼5] Paper Detect Sensor 8, [5], [0] GND, [▲5] Paper Overflow Sensor 7, [5], [0] GND

D7085405

D6165460

Paper Detect Sensor 7 — S17 — CN216
Paper Overflow Sensor 6 — S16 — CN215
Transport Sensor 4 — S15 — CN214
Door Safety Sensor — S24 — CN211

CN230 JCN230 CN230

CN103: [0] GND, [▼5] Paper Detect Sensor 7, [5], [0] GND, [▲5] Paper Overflow Sensor 6, [5], [0] GND, [▼5] Transport Sensor 4, [5], [0] GND, [▲5] Door Safety Sensor, [5]

D6165460

Paper Detect Sensor 5 — S12 — CN211
Paper Overflow Sensor 4 — S11 — CN210
Transport Sensor 3 — S10 — CN209

CN228 JCN228 CN228

D7085415 (1/2)

CN102: [0] GND, [▼5] Paper Detect Sensor 5, [5], [0] GND, [▲5] Paper Overflow Sensor 4, [5], [0] GND, [▼5] Transport Sensor 3, [5]

Main Control Board (PCB1)

D7085435

CN108: [24], [24], GND [0], Main Motor_A [0/24], Main Motor_AB [0/24], Main Motor_B [0/24], Main Motor_BB [0/24]

CN247 JCN247 CN

M1 — Main Moto

CN110: [24], Turn Gate Solenoid 8 [▼24], [24], Turn Gate Solenoid 7 [▼24]

CN246 JCN246 CN — SLO8 — Turn Gate Solenoid 8

CN245 JCN245 CN — SLO7 — Turn Gate Solenoid 7

CN105: [24], Turn Gate Solenoid 6 [▼24] — SLO6 — Turn Gate Solenoid 6

CN106: [24], Turn Gate Solenoid 5 [▼24] — SLO5 — Turn Gate Solenoid 5

CN107: [24], Turn Gate Solenoid 4 [▼24] — SLO4 — Turn Gate Solenoid 4

CN111: [24], Turn Gate Solenoid 3 [▼24] — SLO3 — Turn Gate Solenoid 3

D6165425

CN115: [24], Turn Gate Solenoid 2 [▼24], [24], Turn Gate Solenoid 1 [▼24], [24], Junction Gate Solenoid [▼24]

CN242 JCN242 CN — SLO2 — Turn Gate Solenoid 2

CN243 JCN243 CN — SLO1 — Turn Gate Solenoid 1

CN244 JCN244 CN — SLO9 — Junction Gate Solenoid

D6165450

CN114: GND [0], Paper Detect Sensor 4 [▼5], [5], GND [0], Paper Overflow Sensor 3 [▲5], [5], GND [0], Paper Detect Sensor 3 [▼5], [5], GND [0], Paper Overflow Sensor 2 [▲5], [5], GND [0], Transport Sensor 2 [▼5], [5]

CN227 JCN227 CN227 — S9 — Paper Detect Sensor 4

CN207 — S8 — Paper Overflow Sensor 3

CN226 JCN226 CN226 — S7 — Paper Detect Sensor 3

CN205 — S6 — Paper Overflow Sensor 2

D7085415 (2/2)

D6165460

CN204 — S5 — Transport Sensor 2

D6165450

CN104: GND [0], Paper Detect Sensor 2 [▼5], [5], GND [0], Paper Overflow Sensor 1 [▲5], [5], GND [0], Transport Sensor 1 [▼5], [5], GND [0], Paper Detect Sensor 1 [▼5], [5], GND [0]

CN225 JCN225 CN225 — CN203 — S4 — Paper Detect Sensor 2

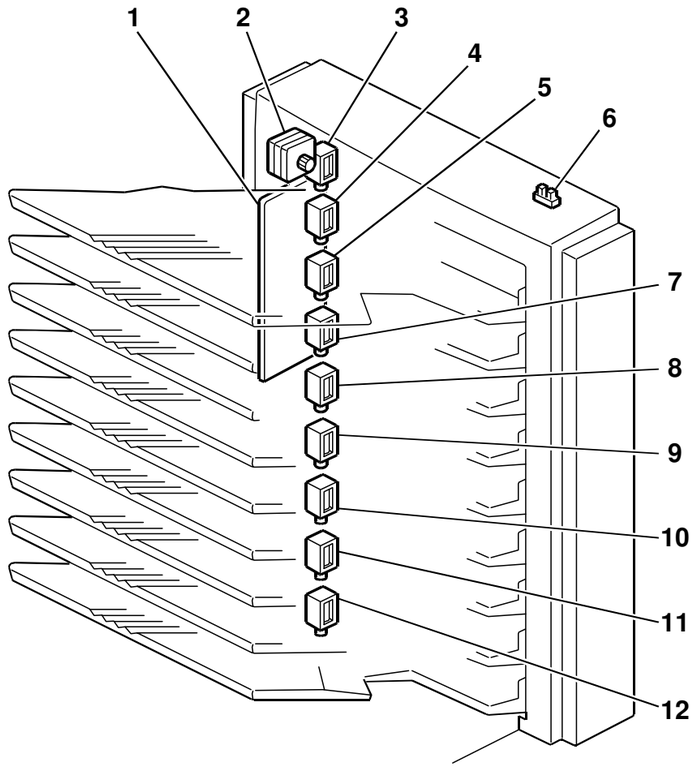
CN202 — S3 — Paper Overflow Sensor 1

CN224 JCN224 CN224 — CN201 — S2 — Transport Sensor 1

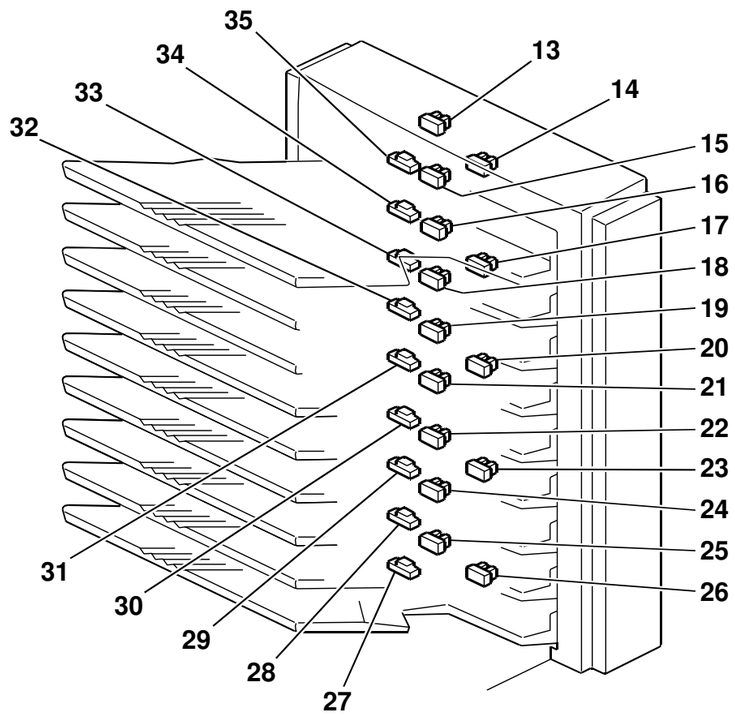
D6165440

CN200 — S1 — Paper Detect Sensor 1

9-BIN MAIL BOX (D708) ELECTRICAL COMPONENT LAYOUT



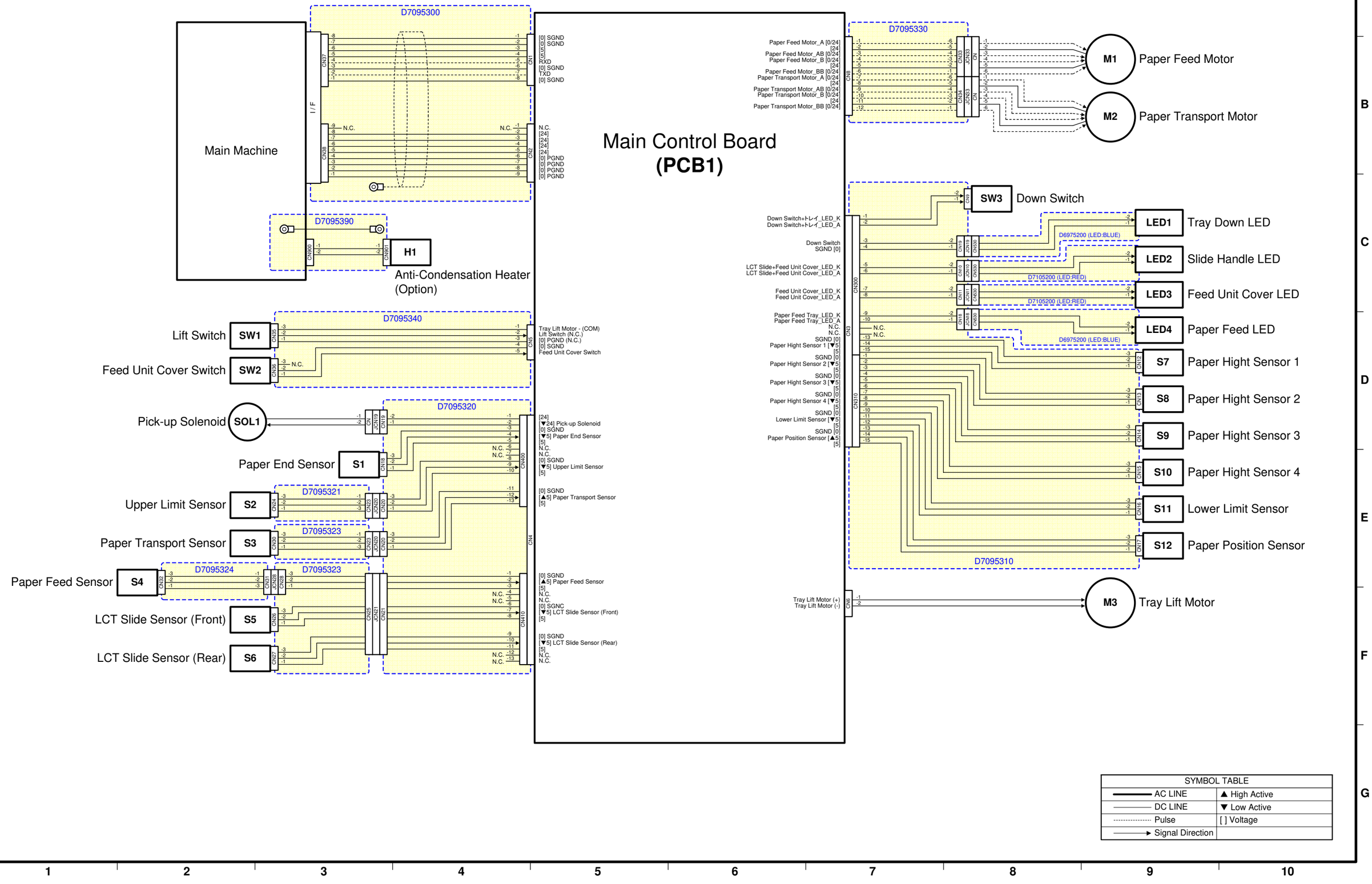
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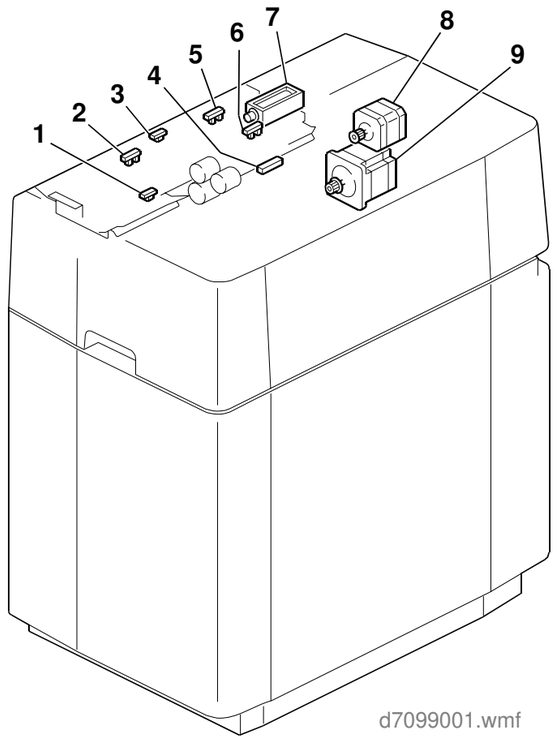
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Symbol	Index No.	Description	P to P
Sensors			
S1	35	Paper Detect Sensor 1	F8
S2	26	Transport Sensor 1	E8
S3	13	Paper Overflow Sensor 1	E8
S4	34	Paper Detect Sensor 2	E8
S5	23	Transport Sensor 2	E8
S6	15	Paper Overflow Sensor 2	D8
S7	33	Paper Detect Sensor 3	D8
S8	16	Paper Overflow Sensor 3	D8
S9	32	Paper Detect Sensor 4	D8
S10	20	Transport Sensor 3	F2
S11	18	Paper Overflow Sensor 4	F2
S12	31	Paper Detect Sensor 5	E2
S13	19	Paper Overflow Sensor 5	E2
S14	30	Paper Detect Sensor 6	E2
S15	17	Transport Sensor 4	D2
S16	21	Paper Overflow Sensor 6	D2
S17	29	Paper Detect Sensor 7	D2
S18	22	Paper Overflow Sensor 7	D2
S19	28	Paper Detect Sensor 8	C2
S20	14	Transport Sensor 5	C2
S21	24	Paper Overflow Sensor 8	C2
S22	27	Paper Detect Sensor 9	C2
S23	25	Paper Overflow Sensor 9	C8
S24	6	Door Safety Sensor	C8
Motor			
M1	2	Main Motor	A8
PCB			
PCB1	1	Main Board	C5
Solenoids			
SOL1	3	Turn Gate Solenoid 1	C8
SOL2	4	Turn Gate Solenoid 2	B8
SOL3	5	Turn Gate Solenoid 3	B8
SOL4	7	Turn Gate Solenoid 4	B8
SOL5	8	Turn Gate Solenoid 5	B8
SOL6	9	Turn Gate Solenoid 6	B8
SOL7	10	Turn Gate Solenoid 7	B8
SOL8	11	Turn Gate Solenoid 8	B8
SOL9	12	Junction Gate Solenoid	C8

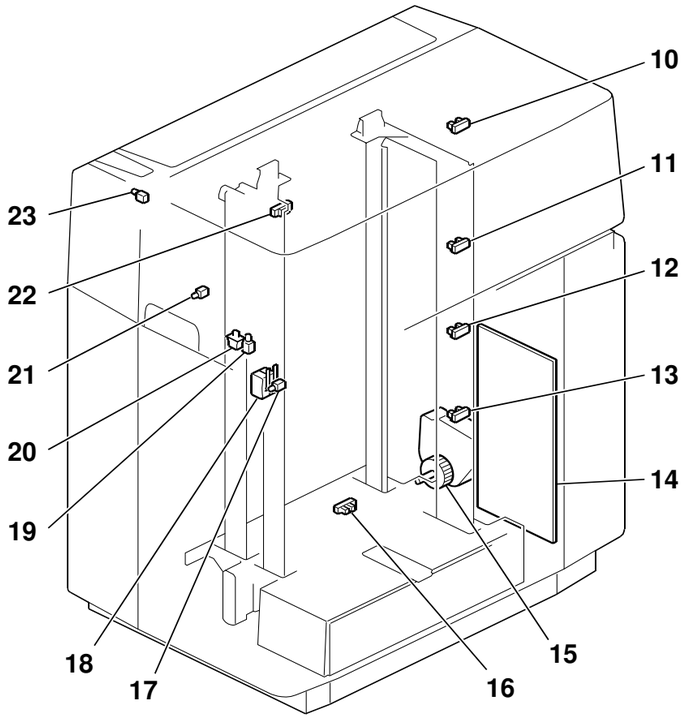
A4 LARGE CAPACITY TRAY (D709) POINT TO POINT DIAGRAM



A4 LARGE CAPACITY TRAY (D709) ELECTRICAL COMPONENT LAYOUT



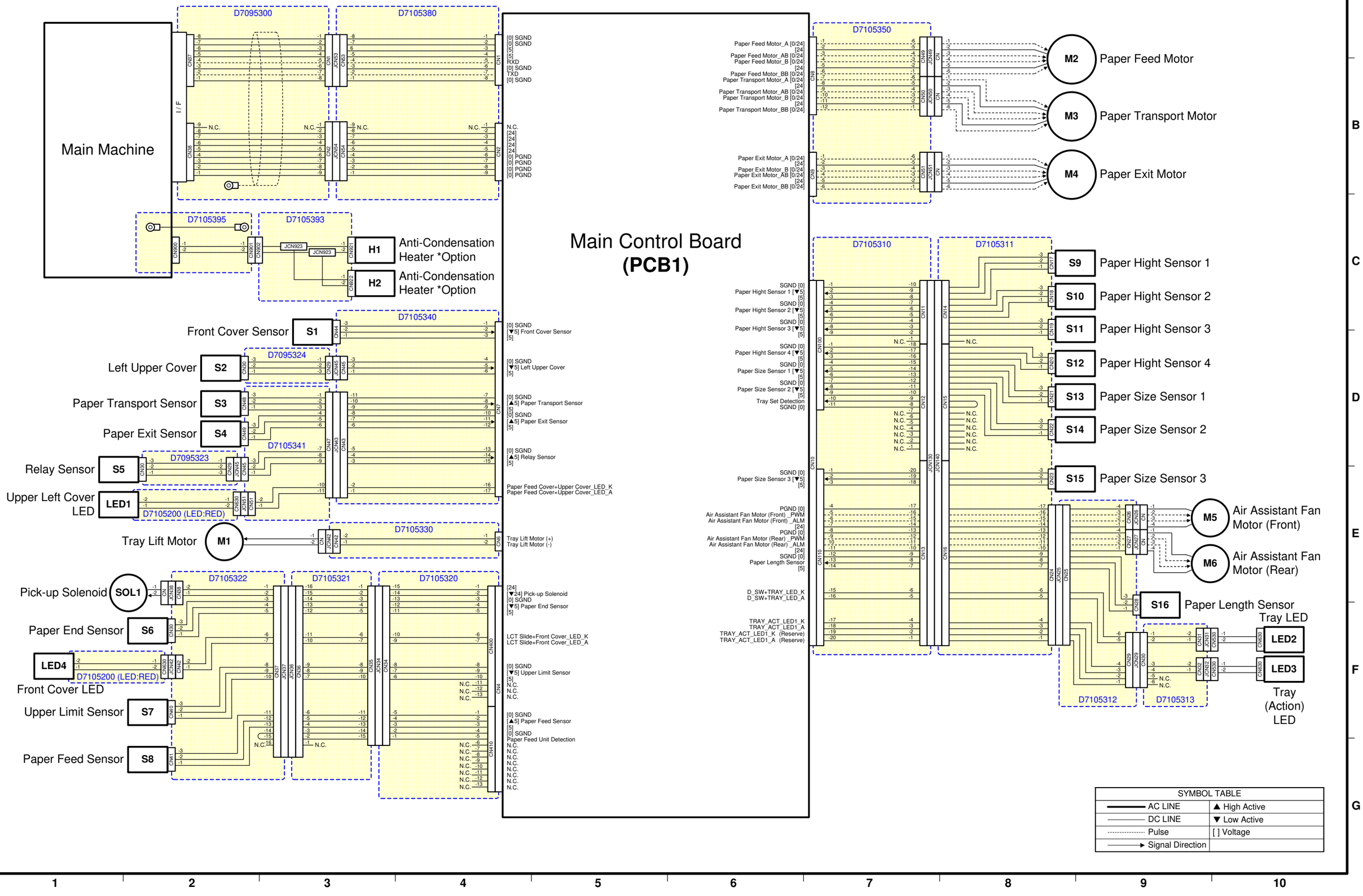
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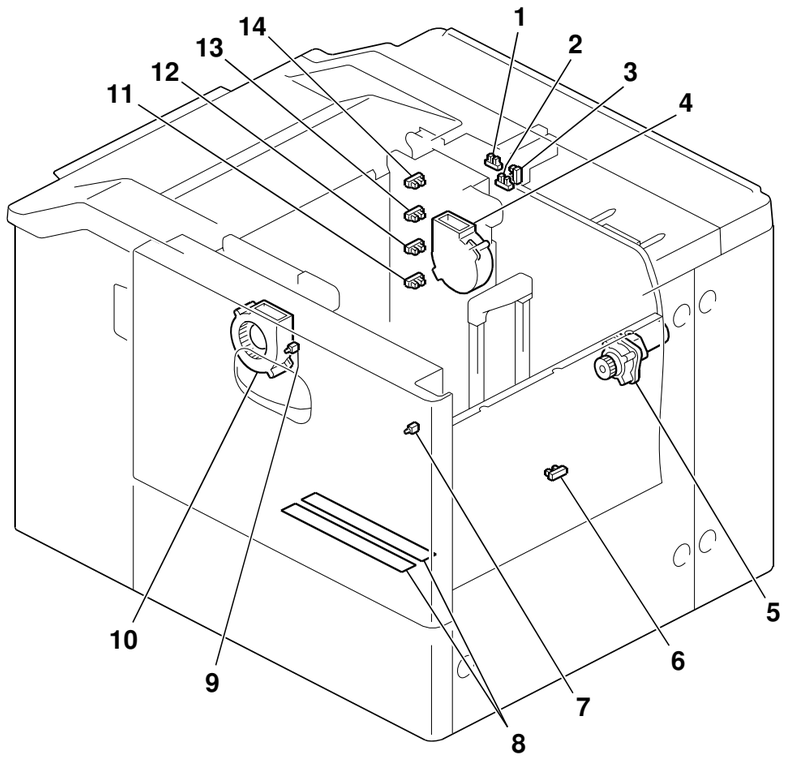
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Symbol	Index No.	Description	P to P
PCB			
PCB1	14	Main Control Board	B5.B6
Sensors			
S1	4	Paper End Sensor	E3
S2	6	Upper Limit Sensor	E2
S3	3	Paper Transport Sensor	E2
S4	1	Paper Feed Sensor	E2
S5	2	LCT Slide Sensor (Front)	F2
S6	5	LCT Slide Sensor (Rear)	F2
S7	10	Paper Hight Sensor 1	D9
S8	11	Paper Hight Sensor 2	D9
S9	12	Paper Hight Sensor 3	D9
S10	13	Paper Hight Sensor 4	E9
S11	16	Lower Limit Sensor	E9
S12	22	Paper Position Sensor	E9
Motors			
M1	8	Paper Feed Motor	B9
M2	9	Paper Transport Motor	B9
M3	15	Tray Lift Motor	F9
LEDs			
LED1	19	Tray Down LED	C9
LED2	23	Slide Handle LED	C9
LED3	21	Feed Unit Cover LED	C9
LED4	17	Paper Feed LED	D9
Solenoid			
SOL1	7	Pick-up Solenoid	D2
Switch			
SW1	18	Lift Switch	D2
SW2		Feed Unit Cover Switch	D2
SW3	20	Down Switch	C8

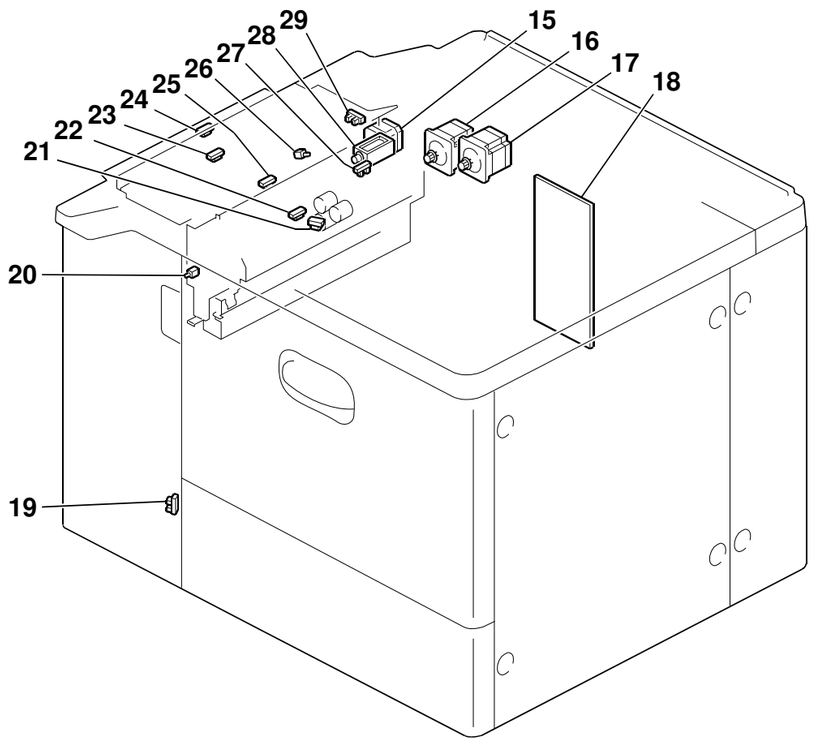
SRA3 LARGE CAPACITY TRAY (D710) POINT TO POINT DIAGRAM



SRA3 LARGE CAPACITY TRAY (D710) ELECTRICAL COMPONENT LAYOUT



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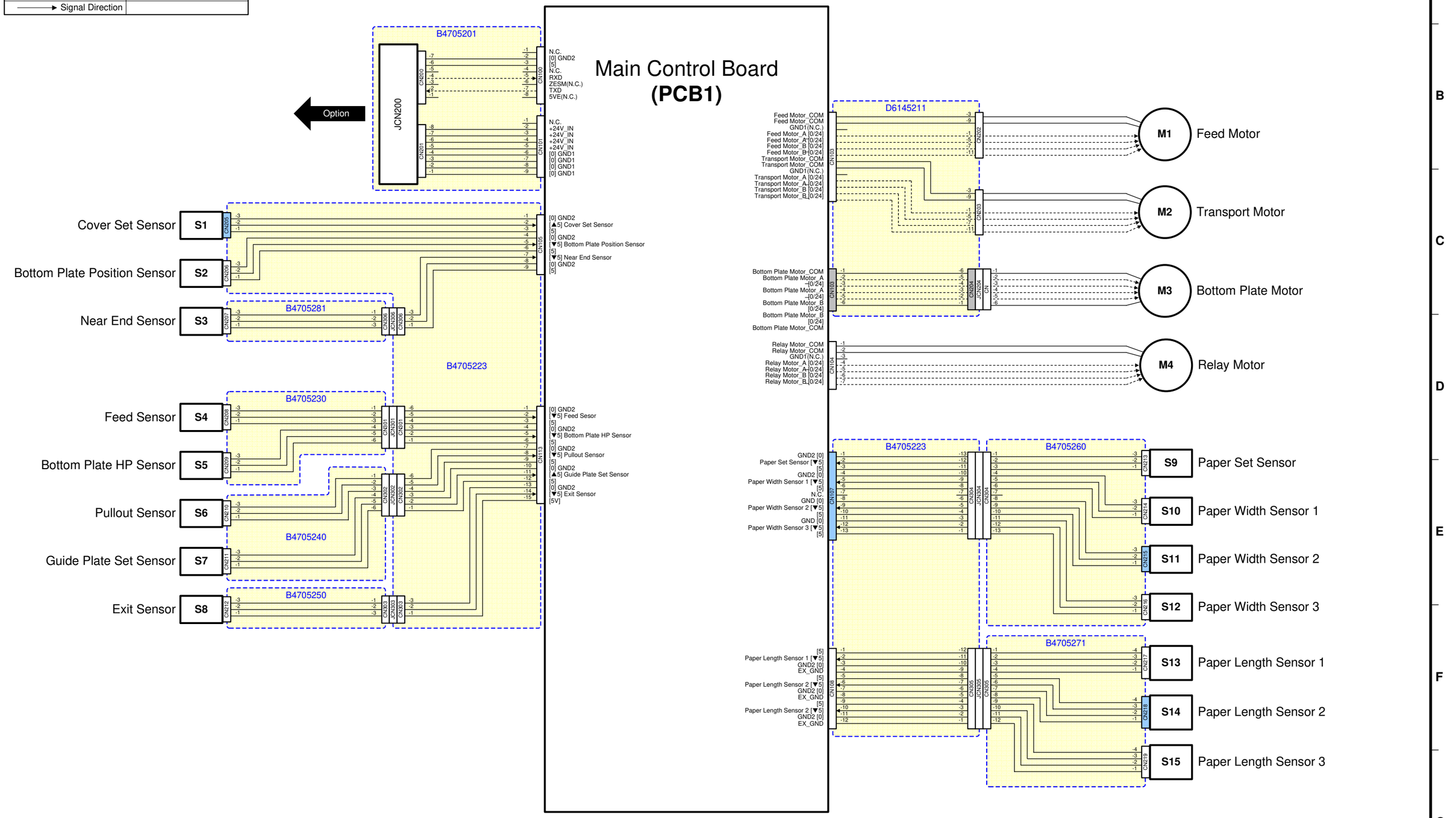


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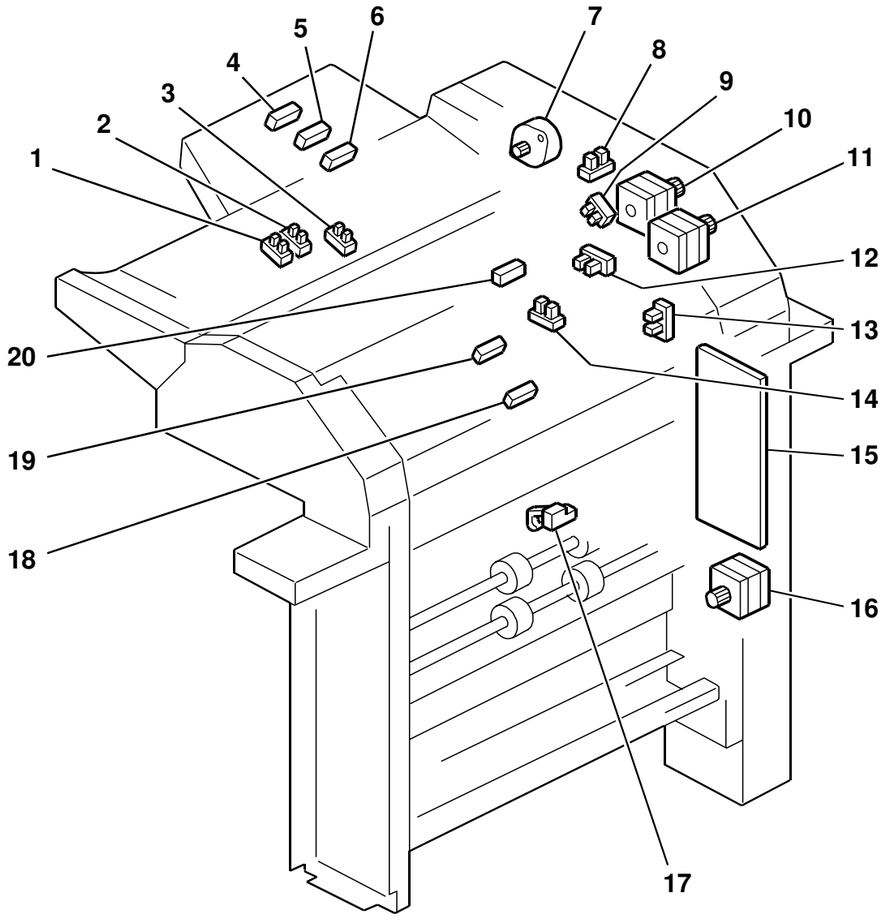
Symbol	Index No.	Description	P to P
PCB			
PCB1	18	Main Control Board	C5,C6
Sensors			
S1	19	Front Cover Sensor	C3,D3
S2	29	Left Upper Cover	D2
S3	25	Paper Transport Sensor	D2
S4	24	Paper Exit Sensor	D2
S5	23	Relay Sensor	D1,E1
S6	21	Paper End Sensor	F2
S7	27	Upper Limit Sensor	F2
S8	22	Paper Feed Sensor	G2
S9	14	Paper Hight Sensor 1	C9
S10	13	Paper Hight Sensor 2	C9
S11	12	Paper Hight Sensor 3	C9,D9
S12	11	Paper Hight Sensor 4	D9
S13	3	Paper Size Sensor 1	D9
S14	2	Paper Size Sensor 2	D9
S15	1	Paper Size Sensor 3	E9
S16	6	Paper Length Sensor	E9,F9
Motors			
M1	5	Tray Lift Motor	E2
M2	17	Paper Feed Motor	A9,B9
M3	16	Paper Transport Motor	B9
M4	15	Paper Exit Motor	B9
M5	10	Air Assistant Fan Motor (Front)	E10
M6	4	Air Assistant Fan Motor (Rear)	E10
LEDs			
LED1	26	Upper Left Cover LED	E1
LED2	7	Tray LED	F10
LED3	9	Tray (Action) LED	F10
LED4	20	Front Cover LED	F1
Solenoid			
SOL1	28	Pick-up Solenoid	E2
Heaters			
H1,H2	8	Anti-Condensation Heater *Option	C3

COVER INTERPOSER TRAY (D711) POINT TO POINT DIAGRAM

SYMBOL TABLE	
AC LINE	▲ High Active
DC LINE	▼ Low Active
Pulse	[ ] Voltage
Signal Direction	



COVER INTERPOSER TRAY (D711) ELECTRICAL COMPONENT LAYOUT



d7110901.wmf

Symbol	Index No.	Description	P to P
Sensors			
S1	8	Cover Set Sensor	C2
S2	9	Bottom Plate Position Sensor	C2
S3	12	Near End Sensor	D2
S4	19	Feed Sensor	D2
S5	14	Bottom Plate HP Sensor	D2
S6	18	Pull-out Sensor	E2
S7	13	Guide Plate Set Sensor	E2
S8	17	Exit Sensor	E2
S9	20	Paper Set Sensor	C8
S10	3	Paper Width Sensor 1	C8
S11	2	Paper Width Sensor 2	D8
S12	1	Paper Width Sensor 3	D8
S13	6	Paper Length Sensor 1	D8
S14	5	Paper Length Sensor 2	E8
S15	4	Paper Length Sensor 3	E8
Motors			
M1	10	Feed Motor	A8
M2	11	Transport Motor	B8
M3	7	Bottom Plate Motor	B8
M4	16	Relay Motor	C8
PCB			
PCB1	15	Main Board	

2-SOURCES COVER INTERPOSER TRAY (D712) POINT TO POINT DIAGRAM

1st Paper Feed Sensor S1
1st Paper Transport Sensor S2
1st Pick-up Roller HP Sensor S3
1st Bottom Plate Position Sensor S4
1st Lower Limit Sensor S5
1st Paper Upper Limit Sensor S6
1st Paper Size Board PCB3
1st Paper Length Sensor S7
1st Paper End Sensor S8
1st Tray Cover Sensor S9
2nd Paper Feed Sensor S10
2nd Paper Transport Sensor S11
2nd Pick-up Roller HP Sensor S12
2nd Bottom Plate Position Sensor S13
2nd Lower Limit Sensor S14
2nd Paper Upper Limit Sensor S15
2nd Paper Size Board PCB4
2nd Paper Length Sensor S16
2nd Paper End Sensor S17
2nd Tray Cover Sensor S18
1st Vertical Transport Sensor S19
Transport Cover Switch SW1

D7125323 D7125321 D7125322 D7125323 D7125322 D7125325 D7125327 D7125326

Driver Board (PCB2)

D7125328 D7125329 D7125312 D7125311 D7125300 (1/2) D7125331 (1/3)

1st Paper Feed Motor M1
1st Transport Motor M2
1st Pick-up Motor M3
1st Lift Motor M4
2nd Paper Feed Motor M5
2nd Transport Motor M6
2nd Pick-up Motor M7
2nd Lift Motor M8

1st Tray Bracket F.G. D7125332 F.G. 2nd Tray Bracket
1st Tray Bracket F.G. D7125332 F.G. 2nd Tray Bracket

Paper Exit Sensor S20
2nd Vertical Transport Sensor S21
Exit Sensor S22
Entrance Sensor S23
Vertical Transport Motor M9
Horizontal Transport Motor M10
Front Door Switch SW2

D7125314 D7125315 D7125316 D7125331 (3/3) D7125300 (2/2) D7125318 D7125317 D7125301 D7125300 (1/2)

Option

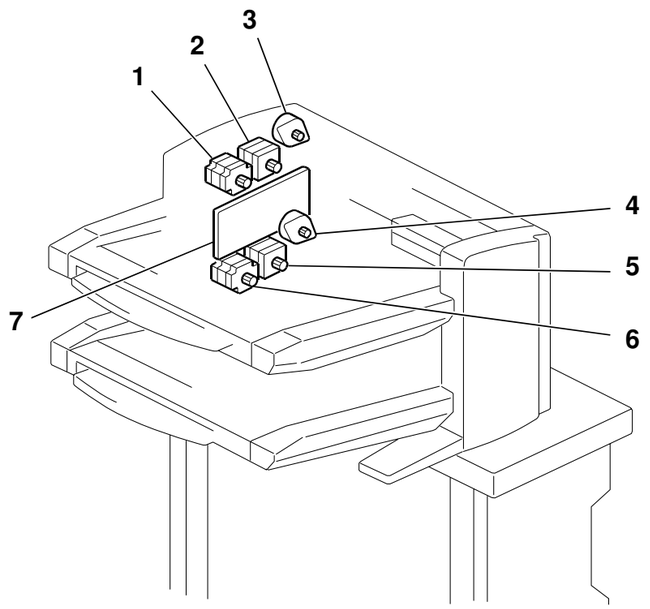
Main Control Board (PCB1)

Main Machine

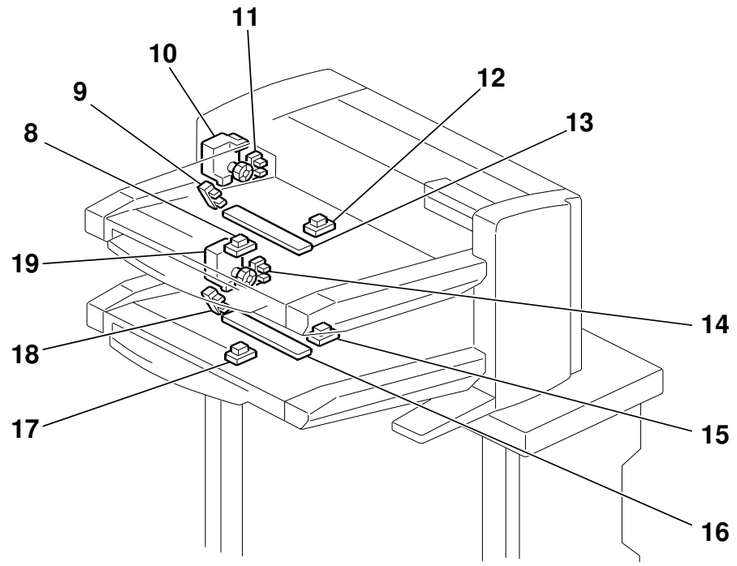
D7125331 (2/3) D7125331 (3/3)

SYMBOL TABLE	
AC LINE	▲ High Active
DC LINE	▼ Low Active
Pulse	[ ] Voltage
Signal Direction	

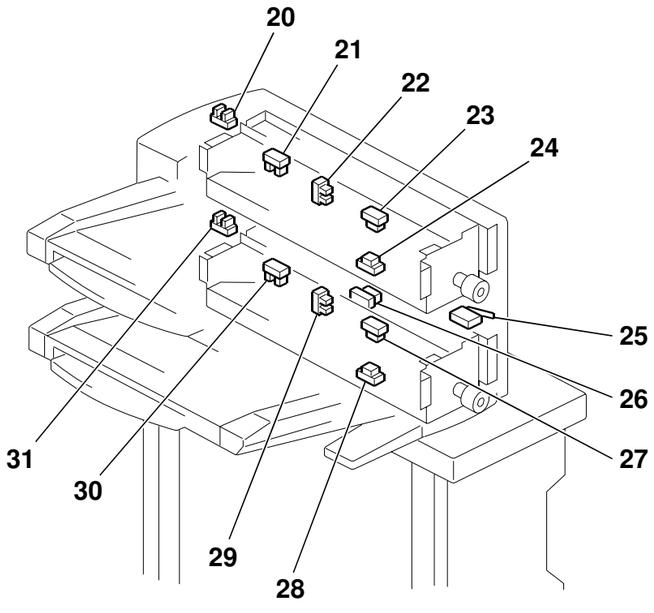
2-SOURCES COVER INTERPOSER TRAY (D712) ELECTRICAL COMPONENT LAYOUT



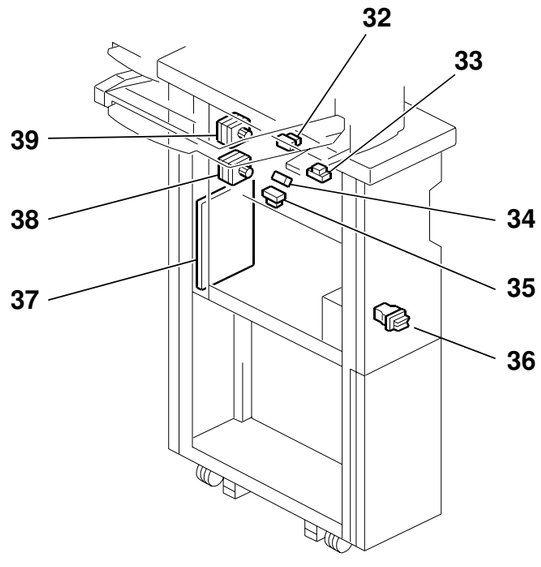
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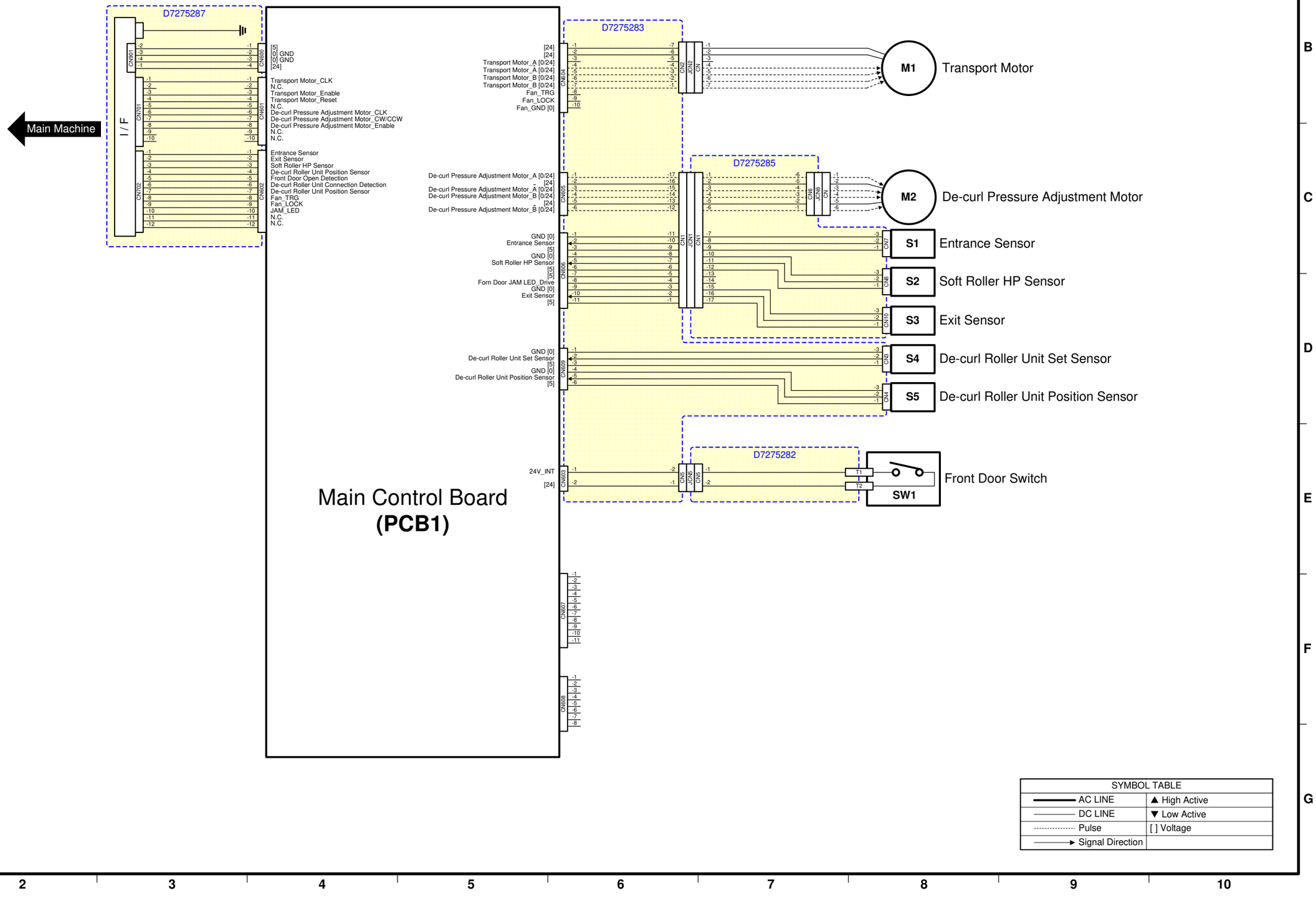
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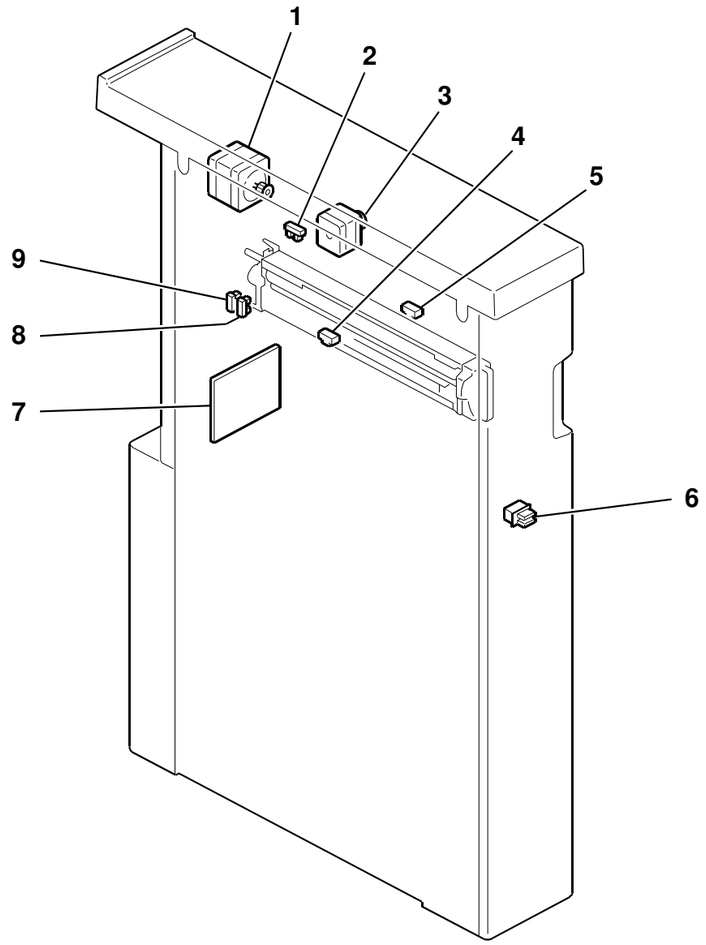
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Symbol	Index No.	Description	P to P
PCBs			
PCB1	37	Main Control Board	E9
PCB2	7	Driver Board	F4,G4
PCB3	13	1st Paper Size Board	C2
PCB4	16	2nd Paper Size Board	F2
Sensors			
S1	24	1st Paper Feed Sensor	A2
S2	23	1st Paper Transport Sensor	A2
S3	21	1st Pick-up Roller HP Sensor	B2
S4	22	1st Bottom Plate Position Sensor	B2
S5	11	1st Lower Limit Sensor	B2
S6	9	1st Paper Upper Limit Sensor	B2
S7	8	1st Paper Length Sensor	C2
S8	12	1st Paper End Sensor	C2
S9	20	1st Tray Cover Sensor	D2
S10	28	2nd Paper Feed Sensor	D2
S11	27	2nd Paper Transport Sensor	D2
S12	30	2nd Pick-up Roller HP Sensor	D2
S13	29	2nd Bottom Plate Position Sensor	E2
S14	14	2nd Lower Limit Sensor	E2
S15	18	2nd Paper Upper Limit Sensor	E2
S16	17	2nd Paper Length Sensor	F2
S17	15	2nd Paper End Sensor	F2
S18	31	2nd Tray Cover Sensor	G2
S19	26	1st Vertical Transport Sensor	G2
S20	34	Paper Exit Sensor	A8
S21	32	2nd Vertical Transport Sensor	A8
S22	35	Exit Sensor	A8
S23	33	Entrance Sensor	B8
Motors			
M1	1	1st Paper Feed Motor	A6
M2	2	1st Transport Motor	A6,B6
M3	3	1st Pick-up Motor	B6
M4	10	1st Lift Motor	B6
M5	6	2nd Paper Feed Motor	C6
M6	5	2nd Transport Motor	C6
M7	4	2nd Pick-up Motor	D6
M8	19	2nd Lift Motor	D6
M9	39	Vertical Transport Motor	B8
M10	38	Horizontal Transport Motor	C8
Switches			
SW1	25	Transport Cover Switch	G2
SW2	36	Front Door Switch	C7

DECURL UNIT (D727) POINT TO POINT DIAGRAM



DECURL UNIT (D727) ELECTRICAL COMPONENT LAYOUT



d7279001.wmf

Symbol	Index No.	Description	P to P
PCB			
PCB1	7	Main Control Board	E4,E5
Sensors			
S1	5	Entrance Sensor	C8
S2	2	Soft Roller HP Sensor	D8
S3	4	Exit Sensor	D8
S4	8	De-curl Roller Unit Set Sensor	D8
S5	9	De-curl Roller Unit Position Sensor	D8
Motors			
M1	1	Transport Motor	B8
M2	3	De-curl Pressure Adjustment Motor	C8
Switch			
SW1	6	Front Door Switch	E8

BUFFER PASS UNIT (D751) POINT TO POINT DIAGRAM

Main Machine

Option

B8355300

M3791757

Main Control Board
(PCB1)

CN300
CN302
CN301
CN100
CN831
CN832
CN844
CN841

Lower Cooling Fan Motor 3 **M1**

Lower Cooling Fan Motor 4 **M2**

Lower Exhaust Fan Motor 3 **M3**

Lower Exhaust Fan Motor 4 **M4**

D7515001

CN839

+24V_INT
Upper Cooling Fan Motor 3_LOCK_P
Upper Cooling Fan Motor 3_ON_N
+24V_INT
Upper Cooling Fan Motor 4_LOCK_P
Upper Cooling Fan Motor 4_ON
+24V_INT
Spare Fan Motor7_LOCK_P
Spare Fan Motor7_ON_N
+24V_INT
Spare Fan Motor3_LOCK_P
Spare Fan Motor3_ON_N
N.C.
+24V_INT
Upper Exhaust Fan Motor 3_LOCK_N
Upper Exhaust Fan Motor 3_ON_N
+24V_INT
Upper Exhaust Fan Motor 4_LOCK_P
Upper Exhaust Fan Motor 4_ON_N
+24V_INT
Spare Fan Motor8_LOCK_P
Spare Fan Motor8_ON_N
+24V_INT
Spare Fan Motor4_LOCK_P
Spare Fan Motor4_ON_N
N.C.

+24V_INT
Upper Cooling Fan Motor 1_LOCK_P
Upper Cooling Fan Motor 1_ON_N
+24V_INT
Upper Cooling Fan Motor 2_LOCK_P
Upper Cooling Fan Motor 2_ON
+24V_INT
Spare Fan Motor5_LOCK_P
Spare Fan Motor5_ON_N
+24V_INT
Spare Fan Motor1_LOCK_P
Spare Fan Motor1_ON_N
+24V_INT
Upper Exhaust Fan Motor 1_LOCK_N
Upper Exhaust Fan Motor 1_ON_N
+24V_INT
Upper Exhaust Fan Motor 2_LOCK_P
Upper Exhaust Fan Motor 2_ON_N
+24V_INT
Spare Fan Motor6_LOCK_P
Spare Fan Motor6_ON_N
+24V_INT
Spare Fan Motor2_LOCK_P
Spare Fan Motor2_ON_N

CN838

M3791755

M3791754

M7 Upper Cooling Fan Motor 1

M8 Upper Cooling Fan Motor 2

M9 Upper Exhaust Fan Motor 1

M10 Upper Exhaust Fan Motor 2

Front Door Switch 2 **SW2**

Front Door Switch 1 **SW1**

D7511752

CN836

[5]
[0] GND

+5V_IN
[0] GND

CN845

SRB
(PCB3)

CN280

AC-L_IN
AC-L_OUT
AC-N_IN
AC-N_OUT

D7511763

CN283

AC-L
AC-N
AC-L_ON
AC-N_ON

PSU
(PCB2)

+24VS
RY_ON
GND [0]
PONEN_N
RY_TRG
MHEAT
ZEROX
N.C.

CN284

[5]
[5]
N.C.
N.C.
Spare1_LED_ON_N
Door_LED_ON_N
LAM_LED_ON_N
Spare2_LED_ON_N
N.C.
[0] GND
[0] GND

CN833

+24VA
+24VA
[0] GND
[0] GND

CN834

[5]
N.C.
N.C.
[0] GND
[0] GND
[0] GND

CN835

200V

CN287

D7511750

AC IN

TAB1
TAB2

AC-L
AC-N

GND

NA	11500438
EU/AA	11500377

Drive Motor (Right) **M5**

Drive Motor (Letf) **M6**

CN840

[0] GND
[5]
[0/24] Drive Motor (Right)_CLK_P
[0/24] Drive Motor (Right)_CW_P
[0/24] Drive Motor (Right)_LOCK_N
[0/24] Drive Motor (Right)_TRG_N
[0] GND
[0] GND
+24V_INT
+24V_INT
[0] GND
[5]
[0/24] Drive Motor (Letf)_CLK_P
[0/24] Drive Motor (Letf)_CW_P
[0/24] Drive Motor (Letf)_LOCK_N
[0/24] Drive Motor (Letf)_TRG_N
[0] GND
[0] GND
+24V_INT
+24V_INT

M3791759

D7511751

GND [0]
GND [0]
[5]
[5]
TXD1_FS_P
N.C.
RXD_FS_P
N.C.

M3791756

M3791760

CN837

GND [0]
Transport Sensor 1 [▼5]
[5]
GND [0]
Transport Sensor 2 [▼5]
[5]
GND [0]
Transport Sensor 3 [▼5]
[5]
GND [0]
Transport Sensor 4 [▼5]
[5]
GND [0]
SPARE1_SENSOR_N
[5]
+24V_INT
DUCT3 FAN_LOCK_P
DUCT3 FAN_ON_N
N.C.
GND [0]
CONNECT_N
+24V_INT
DUCT2 FAN_LOCK_P
DUCT1-3 FAN_ON_N
+24V_INT
DUCT1 FAN_LOCK_P
DUCT1-3 FAN_ON_N
GND [0]
Transport Sensor 5 [▼5]
[5]
GND [0]
Transport Sensor 6 [▼5]
[5]
GND [0]
Transport Sensor 7 [▼5]
[5]
GND [0]
Transport Sensor 8 [▼5]
[5]
N.C.

CN950 FFC

FG

D7511761

M3791762

M3791762

S1 Transport Sensor 1

S2 Transport Sensor 2

S3 Transport Sensor 3

S4 Transport Sensor 4

S5 Transport Sensor 5

S6 Transport Sensor 6

S7 Transport Sensor 7

S8 Transport Sensor 8

CN835

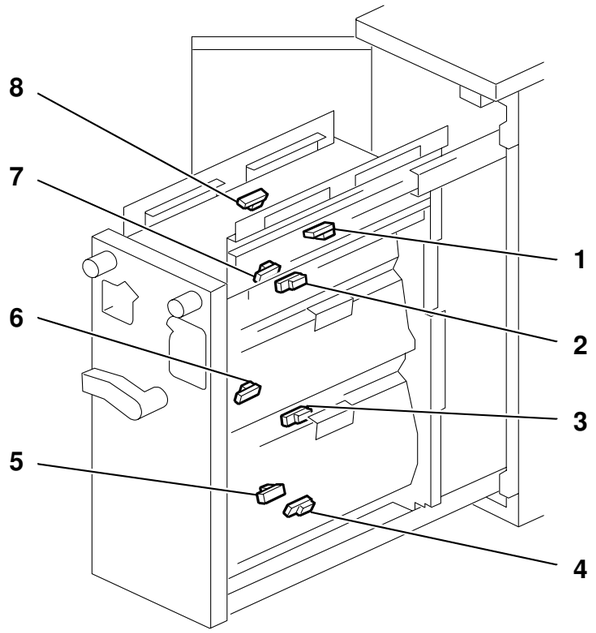
CN842

M3791759

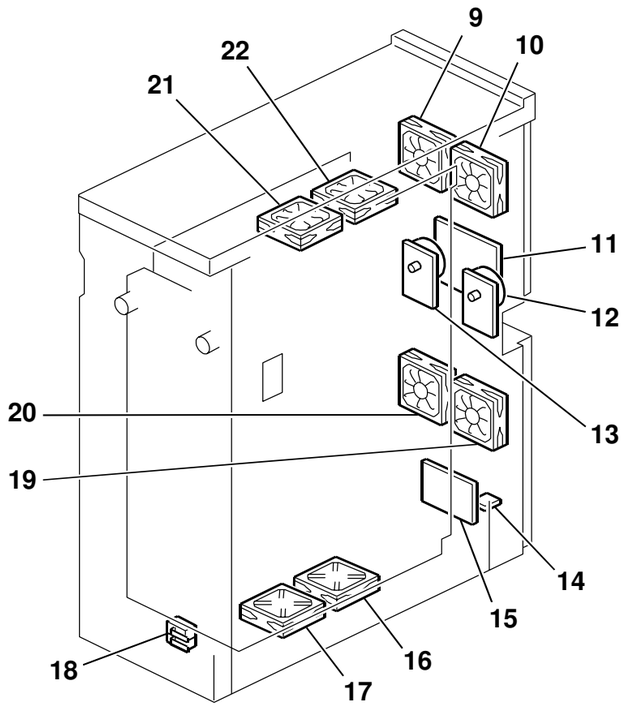
FG — Front Door

SYMBOL TABLE	
AC LINE	▲ High Active
DC LINE	▼ Low Active
Pulse	[ ] Voltage
Signal Direction	

BUFFER PASS UNIT (D751) ELECTRICAL COMPONENT LAYOUT



d7519001.wmf



d7519002.wmf

Symbol	Index No.	Description	P to P
PCBs			
PCB1	11	Main Control Board	B5,B6
PCB2	15	PSU	E3,E4
PCB3	14	SRB	E2
Sensors			
S1	1	Transport Sensor 1	D9
S2	2	Transport Sensor 2	D9
S3	3	Transport Sensor 3	E9
S4	4	Transport Sensor 4	E9
S5	5	Transport Sensor 5	E9
S6	6	Transport Sensor 6	F9
S7	7	Transport Sensor 7	F9
S8	8	Transport Sensor 8	F9
Motors			
M1	16	Lower Cooling Fan Motor 3	C3
M2	17	Lower Cooling Fan Motor 4	C3
M3	20	Lower Exhaust Fan Motor 3	C3
M4	19	Lower Exhaust Fan Motor 4	D3
M5	12	Drive Motor (Right)	F3
M6	13	Drive Motor (Letf)	G3
M7	21	Upper Cooling Fan Motor 1	C9
M8	22	Upper Cooling Fan Motor 2	C9
M9	9	Upper Exhaust Fan Motor 1	C9
M10	10	Upper Exhaust Fan Motor 2	D9
Switch			
SW1,2	18	Front Door Switch 1,2	D2