SP 8400DN POINT TO POINT DIAGRAM

M0AN 5321(1/2):EU
M0AN 5318(1/2):Others

1st Pick-up Solenoid * Japan Only
1st Paper End Sensor (S1)
1st Paper Feed Sensor (S2)
1st Vertical Transport Sensor (S3)
1st Paper Feed Tray Limit Sensor (S4)
1st Paper Feed Tray Size Switch (SW1)
1st Paper Feed Tray Lift Motor (M1) Including Paper remaining sensor
1st Paper Feed Tray Set Switch (SW2)
1st Paper Feed Unit
D202 2708

2nd Pick-up Solenoid * Japan Only
2nd Paper End Sensor (S5)
2nd Paper Feed Sensor (S6)
2nd Vertical Transport Sensor (S7)
2nd Paper Feed Tray Limit Sensor (S8)
2nd Paper Feed Tray Size Switch (SW3)
2nd Paper Feed Tray Lift Motor (M2) Including Paper remaining sensor
2nd Paper Feed Tray Set Switch (SW4)
2nd Paper Feed Unit
D202 2708

Paper Exit Switching Solenoid (SOL1)
Reverse Sensor (S9)
Paper Exit Sensor (S10)
Paper Exit Full Sensor (S11)
Fusing Exit Sensor (S12)
Reverse Motor (*Inverter Motor) (M3)
Paper Exit Unit
D202 4499

Fusing Fan 2 (FAN1)

Bypass Pickup Solenoid (SOL2)
Bypass Paper End Sensor (S13)
Bypass Width Sensor (Bypass Width Switch) (S14)
Bypass Length Sensor (S15)
Bypass Unit
D202 2643
Bypass Unit
D202 2645

Duplex Entrance Motor (M4)
Duplex Entrance Sensor (S16)
Duplex Unit
D202 4672

Duplex/Bypass Motor (M5)
Duplex Exit Sensor (S17)
Duplex Guide Switch (SW5)
Duplex Unit
D202 4695

PCB1 BCU 1/2

M0AN 5308
M0AN 5362 (1/2)
To PSU
Fusing Unit
3pin (S18) NC Sensor (End)
3pin (S19) NC Sensor (Center)
2pin (FU1) Fusing Unit New Detection Fuse
2pin (S20) Pressure Roller Thermistor(End)
2pin (S21) Pressure Roller Thermistor(Center)
5pin Set Detection Mechanism

Registration Unit
D2022556
Registration Sensor (S22)

Transfer Unit Open/Close Sensor (S23)

Transfer Unit
D2026237
ID Sensor (S24)
Transfer Unit Open/ Close LED (LED1)
Fusing Entrance Sensor (S25)
Transfer Unit New Detection Fuse (FU2)

Waste Toner Bottle Detection Switch (SW6)

D289 5320
Fusing Motor (M6)
Registration Motor (M7)
Paper Exit Motor (M8)
Paper Feed Motor (M9)
Vertical Transport Motor (M10)
Fusing Fan 1 (FAN2)

M0AN 5340
Interlock Switch (Right Cover) (SW7)
Interlock Switch (Front Cover) (SW8)

D289 5305
Paper Bank
Bank
Finisher
Finisher

M0AN 5313(1/3)
Paper Exit Cooling Fan (FAN3)
Development Bearing Cooling Fan (FAN4)
Transfer Roller Contact Sensor (S26)
One Unit
Transfer Roller Contact Motor (M11)
Drum Motor (M12)
Development Motor (M13)
Quenching Lamp (L1)
Toner Bottle Detection Switch (SW9)
Tonner Bottle Unit
D2023374
D202 5307
PCL (Pre Cleaning Lamp) (L2)
Toner Collection Full Sensor (S27)
D202 5306
PCU
TD Sensor (S28)
M0AN 5310
M0AN 5309
Temperature/Humidity Sensor (S29)
Temperature Sensor (S30)

Bridge Unit
Bridge Unit/Shift Tray /Paper Exit Tray
Bridge Unit/Paper Exit Tray
Fusing Thermopile (End) (TH1)
Fusing Thermopile (Center) (TH2)
Front Development Cooling Fan (FAN7)
4BIN Separation Solenoid (SOL3)
Inverter Guide Cover Open/Close Switch (SW12)
Toner Supply Motor (M14)
D289 5302

PCB2 BCU 2/2

D289 5304
D289 5303
D289 5374
FFC
D202 5396
M0AN 5399
Japan Only
PCB4 DHB
OPTION
D202 5398
Anti-condensation Heater (PCU) (H1)
Paper Feed Heater (H2)
Bank Heater (H3)
D202 5397
Japan Only
Japan Only
D289 5322(2/2)
D202 5351
Straight Type
PCB3 HVP
Separation D (Red)
Develop B (White)
Charging C (Blue)
Transfer T (Yellow)
187/L type T7 Transfer
187/L type T8 Separation
187/L type T6 Develop
187/L type T5 PCU
M0AN 5362 (2/2)
To Fusing Unit(Drawer)
PCB5 PSU
Harmonic Coil 200V Only
D202 5385
Power Cord
For Relay Tool
Development Exhaust Fan (FAN5)
PSU Cooling Fan (FAN6)
M0AN 5322(1/2)
Debugging Monitor
Special Tool I/F

PCB6 IPU

M0AN 5313(2/3)
Main Power Switch (SW10)
LD Unit
D2025232
PCB7 LDB
LD Unit
D2025230
Polygon Mirror Motor (M15)
AMJ185156
Operator Call Light
Operation Panel Unit
D2891480
D2951562
D2951563
D2951561
PCB8 CTL
D2415250
HDD
M0A05241
M0AN 5321(1/2):EU
M0AN 5318(1/2):Others
Right Cover Open/Close Switch (SW11)
M0AN 5313(1/3)
Front Cover Open/Close Switch (SW13)

Harness(Unit)
Harness(Main)
Harness(Option)
Turning point
VSL Unknown Other
CT miniCT VH PSI
XR CZ MI II miniMI II

SP 8400DN ELECTRICAL COMPONENT LAYOUT

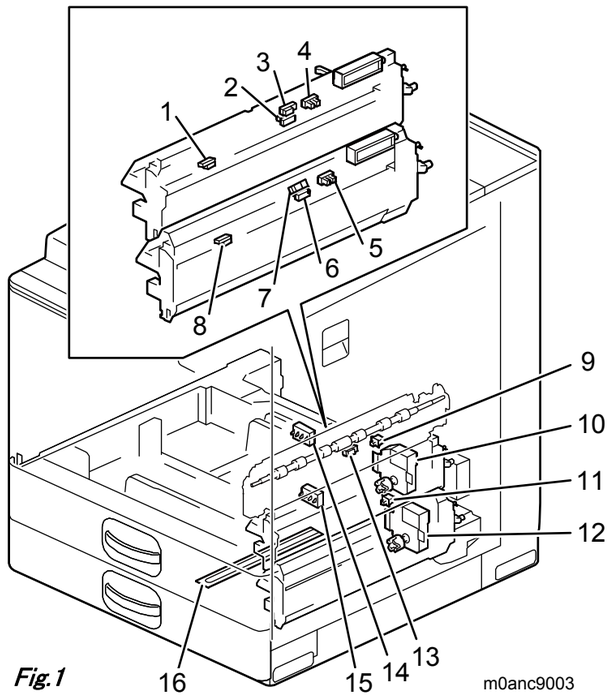


Fig.1

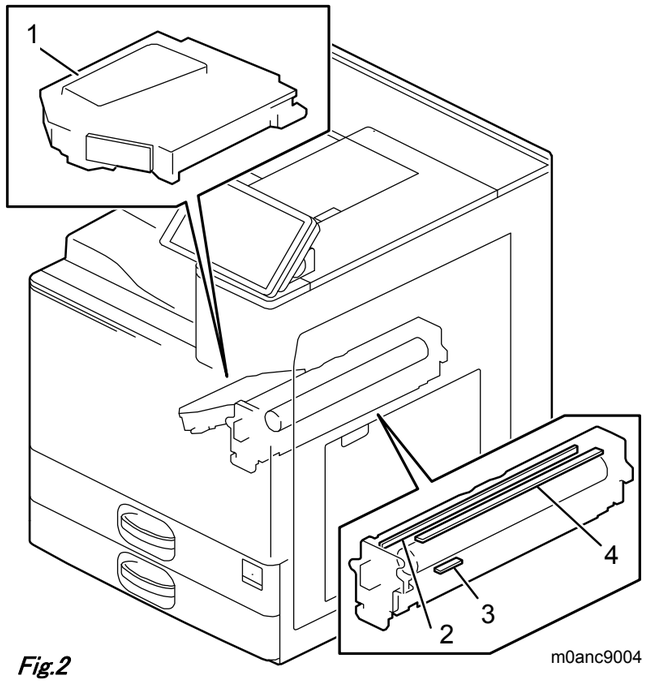


Fig.2

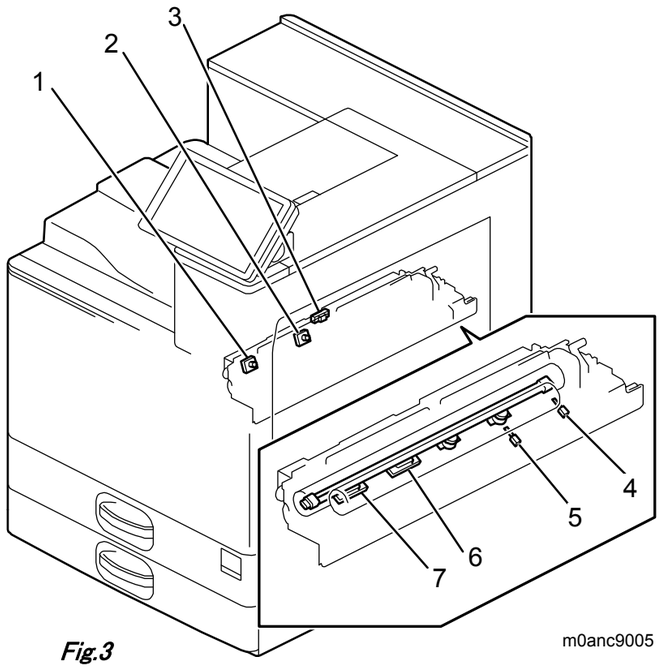


Fig.3

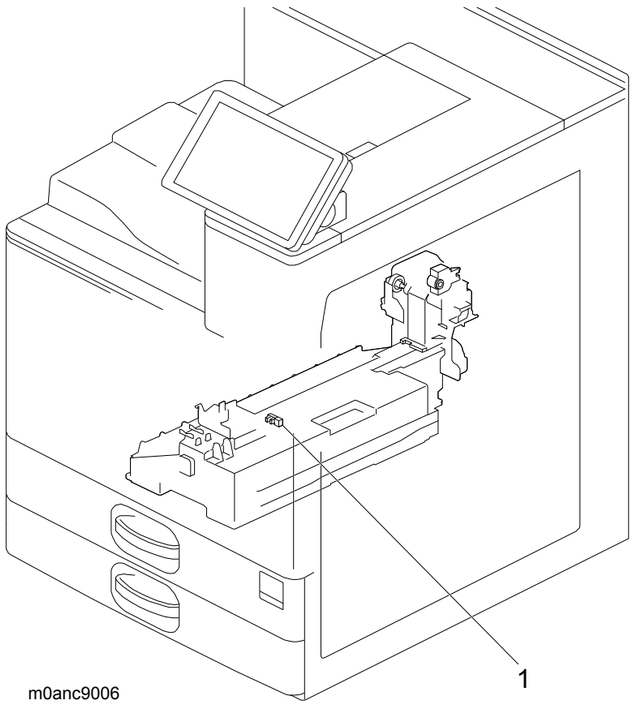


Fig.4

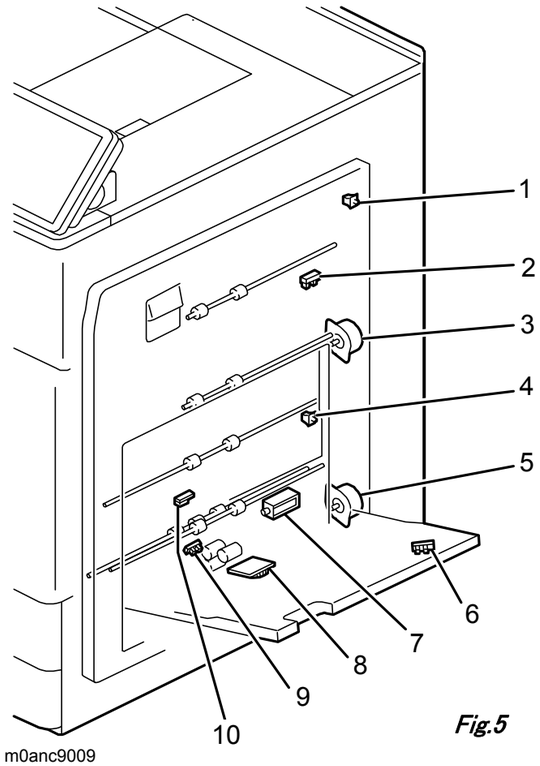


Fig.5

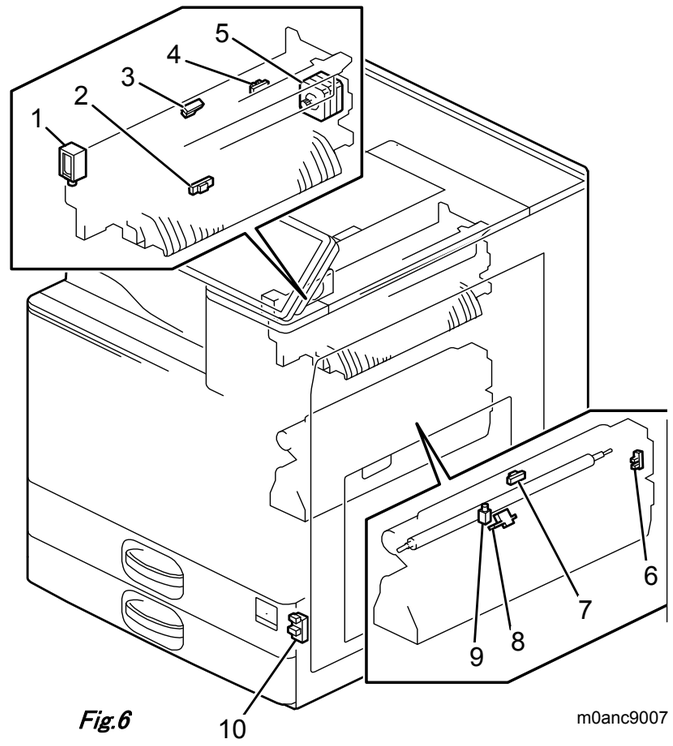


Fig.6

SP 8400DN ELECTRICAL COMPONENT LAYOUT

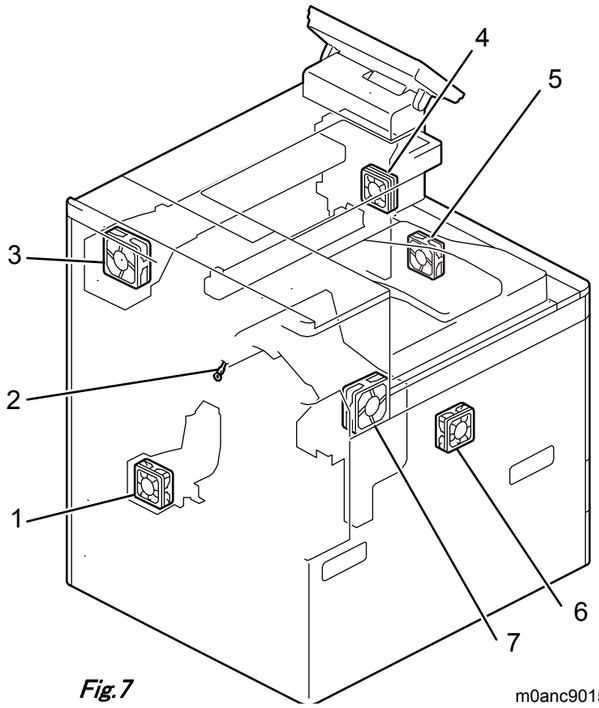


Fig.7

m0anc9015

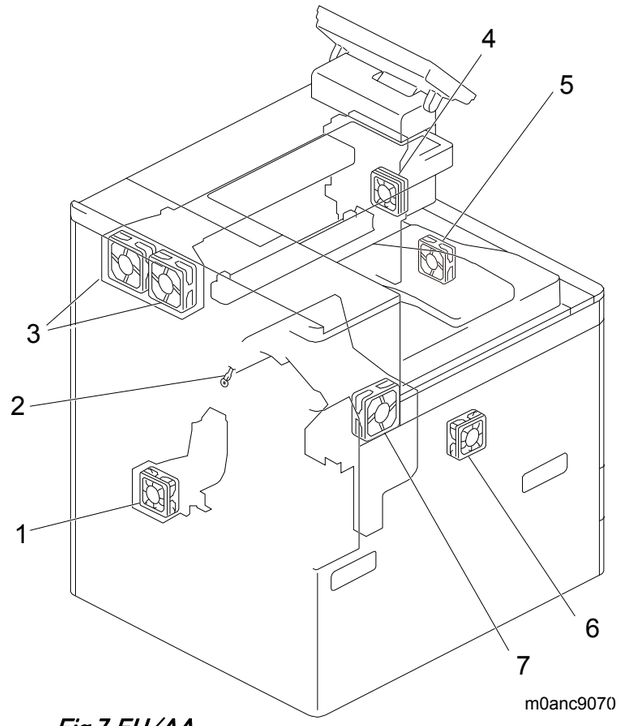


Fig.7 EU/AA

m0anc9070

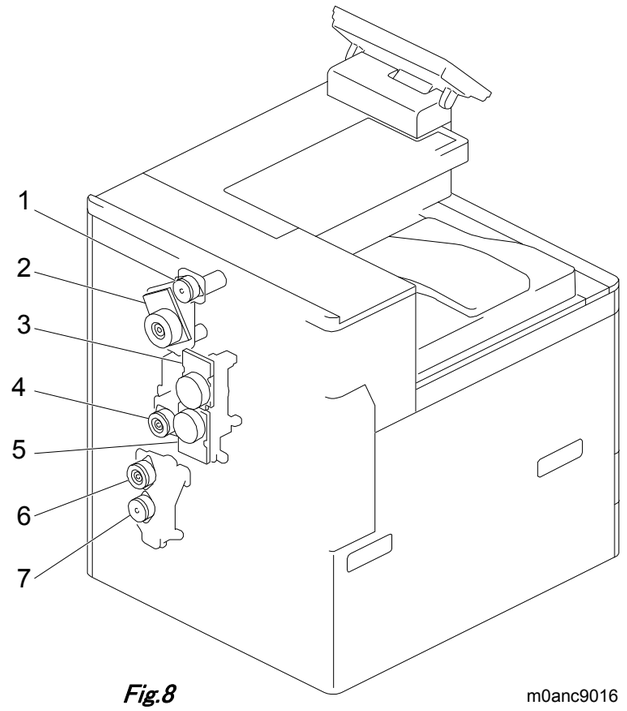


Fig.8

m0anc9016

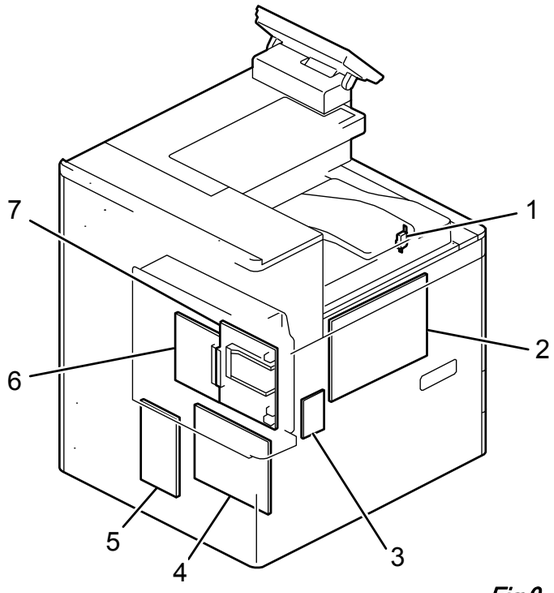
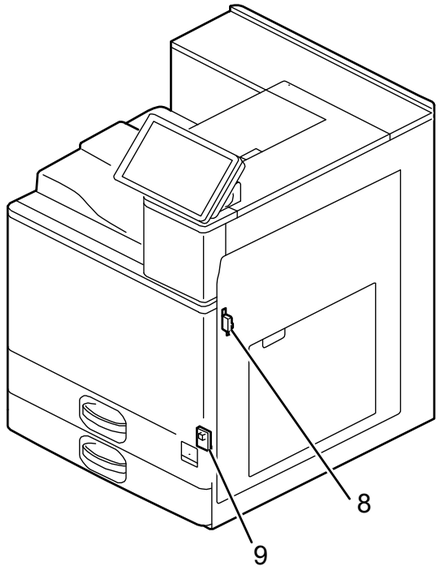


Fig.9



m0anc9008

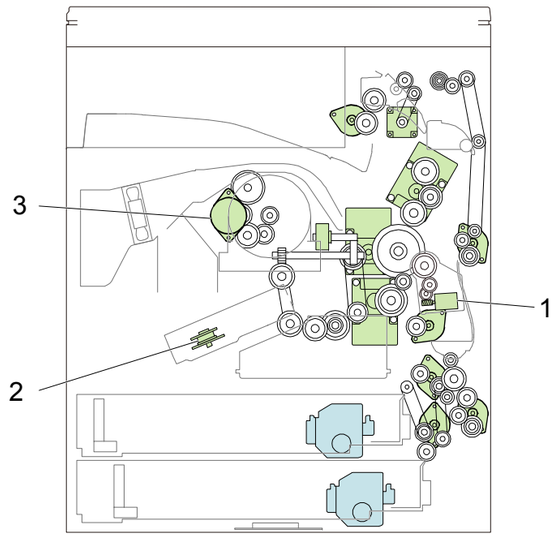


Fig.10

m0anc9013

SP 8400DN ELECTRICAL COMPONENT LAYOUT

Symbol	Index No.	Description	P to P
Motors			
M1	Fig.1-10	1st Paper Feed Tray Lift Motor	B1
M2	Fig.1-12	2nd Paper Feed Tray Lift Motor	D1
M3	Fig.6-5	Reverse Motor	E1
M4	Fig.5-3	Duplex Entrance Motor	F1
M5	Fig.5-5	Duplex/Bypass Motor	G1
M6	Fig.8-2	Fusing Motor	E4
M7	Fig.8-4	Registration Motor	E4
M8	Fig.8-1	Paper Exit Motor	E4
M9	Fig.8-7	Paper Feed Motor	E4
M10	Fig.8-6	Vertical Transport Motor	E4
M11	Fig.10-1	Transfer Roller Contact Motor	A5
M12	Fig.8-3	Drum Motor	B5
M13	Fig.8-5	Development Motor	B5
M14	Fig.10-3	Toner Supply Motor	F5
M15	Fig.10-2	Polygon Mirror Motor	B10
Switches			
SW1	Fig.1-14	1st Paper Feed Tray Size Switch	B1
SW2	Fig.1-9	1st Paper Feed Tray Set Switch	B1
SW3	Fig.1-15	2nd Paper Feed Tray Size Switch	C1
SW4	Fig.1-11	2nd Paper Feed Tray Set Switch	D1
SW5	Fig.5-4	Duplex Guide Switch	G1
SW6	-	Waste Toner Bottle Detection Switch	C4
SW7	Fig.9-8	Interlock switch (Right Cover)	F4
SW8	Fig.9-1	Interlock switch (Front Cover)	F4
SW9	-	Toner Bottle Detection Switch	B5
SW10	Fig.9-9	Main Power Switch	A10
SW11	Fig.5-1	Right Cover Open/Close Switch	D10
SW12	-	Inverter Guide Cover Open/Close Switch	F5
SW13	-	Front Cover Open/Close Switch	D10
LEDs			
LED1	Fig.6-9	Transfer Unit Open/Close LED	C4
Fans			
FAN1	Fig.7-3	Fusing Fan 2	E1
FAN2	Fig.7-3	Fusing Fan 1	F4
FAN3	Fig.7-4	Paper Exit Cooling Fan	A5
FAN4	Fig.7-1	Development Bearing Cooling Fan	A5
FAN5	Fig.7-7	Development Exhaust Fan	F7
FAN6	Fig.7-6	PSU Cooling Fan	F8
FAN7	Fig.7-5	Front Development Cooling Fan	E5
Boards			
PCB1	Fig.9-4	BCU1	D2
PCB2	Fig.9-4	BCU2	D6
PCB3	Fig.9-5	HVP	A7
PCB4	Fig.9-3	DHB	C7
PCB5	Fig.9-2	PSU	D7
PCB6	Fig.9-6	IPU	B9
PCB7	Fig.2-1	LDB	A10
PCB8	Fig.9-7	CTL	C9

Symbol	Index No.	Description	P to P
Sensors			
S1	Fig.1-3	1st Paper End Sensor	A1
S2	Fig.1-1	1st Paper Feed Sensor	A1
S3	Fig.1-2	1st Vertical Transport Sensor	A1
S4	Fig.1-4	1st Paper Feed Tray Limit Sensor	B1
S5	Fig.1-7	2nd Paper End Sensor	C1
S6	Fig.1-8	2nd Paper Feed Sensor	C1
S7	Fig.1-6	2nd Vertical Transport Sensor	C1
S8	Fig.1-5	2nd Paper Feed Tray Limit Sensor	C1
S9	Fig.6-3	Reverse Sensor	D1
S10	Fig.6-2	Paper Exit Sensor	D1
S11	Fig.6-4	Paper Exit Full Sensor	D1
S12	Fig.3-3	Fusing Exit Sensor	E1
S13	Fig.5-9	Bypass Paper End Sensor	F1
S14	Fig.5-8	Bypass Width Sensor	F1
S15	Fig.5-6	Bypass Length Sensor	F1
S16	Fig.5-2	Duplex Entrance Sensor	G1
S17	Fig.5-10	Duplex Exit Sensor	G1
S18	Fig.3-7	NC Sensor (End)	A4
S19	Fig.3-6	NC Sensor (Center)	A4
S20	Fig.3-4	Pressure Roller Thermistor(End)	A4
S21	Fig.3-5	Pressure Roller Thermistor(Center)	A4
S22	Fig.1-13	Registration Sensor	B4
S23	Fig.6-6	Transfer Unit Open/Close Sensor	B4
S24	Fig.6-8	ID Sensor	C4
S25	Fig.6-7	Fusing Entrance Sensor	C4
S26	-	Transfer Roller Contact Sensor	A5
S27	Fig.4-1	Toner Collection Full Sensor	C5
S28	Fig.2-3	TD Sensor	C5
S29	Fig.6-10	Temperature/Humidity Sensor	C5
S30	Fig.7-2	Temperature Sensor	C5
Heaters			
H1	Fig.1-16	Anti-condensation Heater (PCU)	C8
H2	-	Paper Feed Heater	C8
H3	-	Bank Heater	C8
Fuse			
FU1	-	Fusing Unit New Detection Fuse	A4
FU2	-	Transfer Unit New Detection Fuse	C4
Lamps			
L1	Fig.2-2	Quenching Lamp	B5
L2	Fig.2-4	PCL (Pre Cleaning Lamp)	C5
Thermostats/Thermistors			
TH1	Fig.3-1	Fusing Thermopile (End)	E5
TH2	Fig.3-2	Fusing Thermopile (Center)	E5
Solenoids			
SOL1	Fig.6-1	Paper Exit Switching Solenoid	D1
SOL2	Fig.5-7	Bypass Pick-up Solenoid	E1
SOL3	-	4BIN Separation Solenoid	F5

SP 8400DN Harness Pin Assignment (Mainframe)

Harness Information				From/To Information							
Part Number	Start	End	Color	From		Pin No.	Logical Signal Name	I/O	To	Signal Name	Note
M0AN5313 (Mainframe)	CN116 – 1	CN1 – 3	Orange	BCU	CN116	1	EEXCLFN_OUT1	→	Paper Exit Cooling Fan	Paper Exit Cooling Fan: ON	
	〃 – 2	〃 – 2	〃			2	EEXCLFN_LOK	←		Paper Exit Cooling Fan: Lock	
	〃 – 3	〃 – 1	〃			3	GND	G		GND	
	〃 – 4	CN2 – 3	〃			4	NTBCLFN_OUT1	→	Development Bearing Cooling Fan	Development Bearing Cooling Fan: ON	
	〃 – 5	〃 – 2	〃			5	NTBCLFN_LOK	←		Development Bearing Cooling Fan: Lock	
	〃 – 6	〃 – 1	〃			6	GND	G		GND	
	〃 – 7	CN4 – 3	〃			7	GND	G	Transfer Roller Contact Sensor	GND	
	〃 – 8	〃 – 2	〃			8	TTSCASN_SNS	I		Transfer Roller Contact Sensor	
	〃 – 9	〃 – 1	〃			9	+5V_IO	P		+5V_IO	
	CN117 – A1	–	〃		CN117	A1	LWSOCSL_OUT1	→	NC	N.C.	
	〃 – A2	–	〃			A2	LWSOCSL_OUT2	→	NC	N.C.	
	〃 – A3	CN7 – 2	〃			A3	TTSCASN_OUT1	→	Transfer Roller Contact Motor	Transfer Roller Contact Motor: Terminal 1	
	〃 – A4	〃 – 1	〃			A4	TTSCASN_OUT2	→		Transfer Roller Contact Motor: Terminal 2	
	〃 – A5	CN8 – 10	〃			A5	PDR_MT_GA	→	Drum Motor	Drum Motor: SW Gain	
	〃 – A6	〃 – 9	〃			A6	PDR_MT_CLK	→		Drum Motor: Clock	
	〃 – A7	〃 – 8	〃			A7	PDR_MT_BRK_N	→		Drum Motor: Brake	
	〃 – A8	〃 – 7	〃			A8	PDR_MT_CW	→		Drum Motor: CW/CCW	
	〃 – A9	〃 – 6	〃			A9	PDR_MT_STA_N	→		Drum Motor: Start/Stop	
	〃 – A10	〃 – 5	〃			A10	PDR_MT_LOK_N	←		Drum Motor: Lock	
	〃 – A11	〃 – 4	〃			A11	GND	G		GND	
	〃 – A12	〃 – 3	〃			A12	GND	G		GND	
	〃 – A13	〃 – 2	〃			A13	+24VS	P		+24VS	
	〃 – A14	〃 – 1	〃			A14	+24VS	P		+24VS	
	〃 – B1	CN9 – 10	〃			B1	ODV_MT_GA	→	Development Motor	Development Motor: SW Gain	
	〃 – B2	〃 – 9	〃			B2	ODV_MT_CLK	→		Development Motor: Clock	
	〃 – B3	〃 – 8	〃			B3	ODV_MT_BRK_N	→		Development Motor: Brake	
	〃 – B4	〃 – 7	〃			B4	ODV_MT_CW	→		Development Motor: CW/CCW	
	〃 – B5	〃 – 6	〃			B5	ODV_MT_STA_N	→		Development Motor: Start/Stop	
	〃 – B6	〃 – 5	〃			B6	ODV_MT_LOK_N	←		Development Motor: Lock	
	〃 – B7	〃 – 4	〃			B7	GND	G		GND	
	〃 – B8	〃 – 3	〃			B8	GND	G		GND	
	〃 – B9	〃 – 2	〃			B9	+24VS	P		+24VS	
	〃 – B10	〃 – 1	〃			B10	+24VS	P		+24VS	
	〃 – B11	CN10 – 2	〃			B11	PHRDQLE_LED-K	→	D2025307(Mainframe) (END: Quenching Lamp)	Quenching Lamp: LED CATHODE	from: BCU(CN117) →D2895313(Mainframe) →D2025307(Mainframe) →end to: Quenching
	〃 – B12	〃 – 1	〃			B12	+24VS	P		+24VS	
	〃 – B13	CN3 – 3	–			B13	GND	G		GND	from: BCU(CN117) →D2895313(Mainframe)→D2023374(Unit) →end to: Electrical Components
	–	〃 – 2							Toner Bottle Detection Switch	N.C.	
	CN117 – B14	〃 – 1	–			B14	LWBSTSW_SW1	←		Toner Bottle Detection Switch	
	CN118 – 1	CN11 – 6	Orange		CN118	1	GND	G	TD Sensor	GND	from: BCU(CN118) →D2895313(Mainframe) →D2023172(PCU) →end to: TD Sensor
	〃 – 2	〃 – 5	〃			2	NTNODSN_VOUT	←		TD Sensor: Clock IN	
	〃 – 3	〃 – 4	〃			3	+3.3V_ID	P		<TD Sensor>3.3V	
	〃 – 4	〃 – 3	〃			4	NTNODSN_VTCNT	→		<TD Sensor>TD Sensor: SEL	
	〃 – 5	〃 – 2	〃			5	NTNODSN_SDA	⇔		TD Sensor: SDA	
	〃 – 6	〃 – 1	〃			6	NTNODSN_SCL	→		TD Sensor: SCL	
	〃 – 7	CN12 – 4	〃			7	TTS_TH_TH	←	Temperature/Humidity Sensor	Temperature/Humidity Sensor	
	〃 – 8	〃 – 3	〃			8	GND	G		GND	
	〃 – 9	〃 – 2	〃			9	TTS_TH_RHV	←		Temperature/Humidity Sensor	
	〃 – 10	〃 – 1	〃			10	+3.3V	P		+3.3V	
	〃 – 11	CN13 – 2	〃			11	GND	G	Temperature Sensor	GND	
	〃 – 12	〃 – 1	〃			12	MMI_TS_SN+	←		Temperature Sensor	
	〃 – 13	CN5 – 3	〃			13	GND	G	Toner Collection Full Sensor	GND	from: BCU(CN116)→D2895313(Mainframe) →D2025306(Mainframe) →end to: Electrical Components
	〃 – 14	〃 – 2	〃			14	LWBNFSN_SNS	←		Toner Collection Full Sensor	
	〃 – 15	〃 – 1	〃			15	+5V_IO	P		+5V_IO	
	CN139 – 1	CN17 – 10	〃	BCU	CN139	1	GND	G	Bridge Unit / Shift Tray / Paper Exit Tray	GND	
	〃 – 2	〃 – 9	〃			2	+5V_IO	P		+5V_IO	
	〃 – 3	〃 – 8	〃			3	CBU_SS_SET1	←		<Bridge Unit> Option Set Detection: 1 <Shift Tray> Set Detection <Paper Exit Tray> Paper Exit Tray Set Detection: 1	
	〃 – 4	〃 – 7	〃			4	CBUCVSN_SNS	←		<Bridge Unit> Relay Transport Sensor <Shift Tray> HP Sensor <Paper Exit Tray> Paper Exit Sensor	
	〃 – 5	〃 – 6	〃			5	CBUEPSN_SNS	←		<Bridge Unit> Relay Exit Sensor <Paper Exit Tray> Upper Exit Sensor	
	〃 – 6	〃 – 5	〃			6	CBUCVMT_RST	→		<Bridge Unit> Relay Transport Motor: Reset <Shift Tray> Lift Motor: OUT/2 <Paper Exit Tray> Transport Motor: Reset	
	〃 – 7	〃 – 4	〃			7	CBUCVMT_CTL	→		<Bridge Unit> Relay Transport Motor: SW Current <Shift Tray> Lift Motor: OUT/1 <Paper Exit Tray>Transport Motor: SW Current	
	〃 – 8	〃 – 3	〃			8	GND	G		GND	
	〃 – 9	〃 – 2	〃			9	+24V	P		+24V	
	〃 – 10	〃 – 1	–			10	NC	N	NC	NC	
	〃 – 11	–	–			11	NC	N	NC	NC	
	〃 – 12	CN18 – 9	Purple			12	+24V	P	Bridge Unit / Paper Exit Tray	+24V	
	〃 – 13	〃 – 8	〃			13	CBU+5VFU	←		<Bridge Unit> Relay Blown Fuse Detection +5V <Paper Exit Tray> Paper Exit Tray Blown Fuse Detection +5V	
	〃 – 14	〃 – 7	〃			14	CBUCVMT_ENA	→		<Bridge Unit> Relay Transport Motor: Enable <Paper Exit Tray> Transport Motor: Enable	
	〃 – 15	〃 – 6	〃			15	CBU_SS_SET2	←		<Bridge Unit> Option Set Detection: 2 <Paper Exit Tray> Set Detection: 2	
	〃 – 16	〃 – 5	〃			16	CBUDVSL_OUT2	→		<Bridge Unit> Relay JCT SOL: PWM <Paper Exit Tray>Exit JCT SOL: PWM	
	〃 – 17	〃 – 4	〃			17	CBUCVMT_CLK	→		<Bridge Unit> Relay Transport Motor: Clock <Paper Exit Tray> Exit Transport Motor: Clock	
	〃 – 18	〃 – 3	〃			18	CBU+24VFU	←		<Bridge Unit> Relay Blown Fuse Detection +24V	
	〃 – 19	〃 – 2	〃			19	CBTOCSN_SNS	←		<Bridge Unit> Transport Cover O/C Detection <Paper Exit Tray> Exit Cover O/C Detection	
	〃 – 20	〃 – 1	〃			20	CBEOCSN_SNS	←		<Bridge Unit> Relay Exit Cover O/C Detection <Paper Exit Tray> Upper Transport Cover O/C Detection	
	〃 – 21	–	–			21	NC	N	NC	NC	
	〃 – 22	–	–			22	NC	N	NC	NC	
	CN540 – 1	CN19 – 2	Orange	IPU	CN541	1	ACSW_STAT_ON_N	←	Main Power Switch (DC Switch)	Main Power DC Push SW Status Monitoring	
	〃 – 2	〃 – 1	〃			2	GND	G		GND	
	–	CN20 – 4	–	BCU	CN145	–	NC	N	NC	NC	
	CN145 – 1	〃 – 3	Orange			1	+5V_IO	P	Fusing Roller Temperature Sensor (End)	+5V_IO	
	〃 – 2	〃 – 2	〃			2	GND	G		GND	
	〃 – 3	〃 – 1	〃			3	FFR_TSEG_SN-O	←		Fusing Roller Temperature Sensor (End)	
	–	CN21 – 4	–			–	–	–	–	–	
	CN145 – 4	〃 – 3	Orange			4	+5V_IO	P	Fusing Roller Temperature Sensor (Center)	+5V_IO	
	〃 – 5	〃 – 2	〃			5	GND	G		GND	
	〃 – 6	〃 – 1	〃			6	FFR_TSCT_SN-O	←		Fusing Roller Temperature Sensor (Center)	
	CN141 – 1	CN22 – 3	Orange		CN141	1	+24VS	P	PCL (Pre Cleaning Light)	+24VS	
	–	〃 – 2	–			–	NC	N		NC	
	CN141 – 2	〃 – 1	Orange			2	MPT_LED_LED1	→		PCL (Pre Cleaning Light): Cathode	
	CN529 – 1	–	–	IPU	CN529	1	GND	G	Front Door SW	N.C.	
	〃 – 2	–	–			2	GND	G		N.C.	
	〃 – 3	–	–			3	GND	G		N.C.	
	〃 – 4	CN25 – 2	Purple			4	GND	G		Front Door:GND	
	〃 – 5	–	–			5	NC	N		N.C.	
	〃 – 6	–	–			6	NC	N		N.C.	
	〃 – 7	–	–			7	NC	N		N.C.	
	〃 – 8	–	–			8	NC	N		N.C.	
	〃 – 9	–	–			9	GND	G		N.C.	
	〃 – 10	–	–			10	NC	N		N.C.	
	〃 – 11	CN25 – 1	Purple			11	XDOCSET	←		Front Door:SW Signal	
	CN140 – 1	CN26 – 13	Orange	BCU	CN140	1	C4T_RXD	←	4 Bin	4 Bin:UARTRX	
	〃 – 2	〃 – 12	–			2	NC	N		N.C.	
	〃 – 3	〃 – 11	Orange			3	C4T_TXD	→		4 Bin:UARTTX	
	〃 – 4	〃 – 10	〃			4	+5V	P		4 Bin:+5V	
	〃 – 5	〃 – 9	〃			5	+5V	P		4 Bin:+5V	
	〃 – 6	〃 – 8	〃			6	GND	G		4 Bin:GND	
	〃 – 7	〃 – 7	〃			7	GND	G		4 Bin:GND	
	〃 – 8	〃 – 6	〃			8	GND	G		4 Bin:GND	
	〃 – 9	〃 – 5	〃			9	GND	G		4 Bin:GND	
	〃 – 10	〃 – 4	〃			10	GND	G		4 Bin:GND	
	〃 – 11	〃 – 3	〃			11	+24V	P		4 Bin:+24V	
	〃 – 12	〃 – 2	〃			12	+24V	P		4 Bin:+24V	
	〃 – 13	〃 – 1	〃			13	+24V	P		4 Bin:+24V	
	CN142 – 1	CN23 – 2	Purple	BCU	CN142	1	DDCM_SYCS_N	O	Inverter Guide Cover Open/Close Switch	Inverter Guide Cover Open/Close Switch:OUT2	
	〃 – 2	–	–			2	N.C.	N		N.C.	
	〃 – 3	CN23 – 1	Purple			3	DDCM_SYDI	I		Inverter Guide Cover Open/Close Switch:OUT1	
	〃 – 4	–	–			4	N.C.	N		N.C.	
	〃 – 5	–	–			5	N.C.	N		N.C.	
	CN143 – 1	CN24 – 3	Purple		CN143	1	RSVFN_OUT1	O	Front Development Cooling	Front Development Cooling Fan:ON	
	〃 – 2	〃 – 2	〃			2	RSVFN_LOK	I		Front Development Cooling Fan:Lock	
	〃 – 3	〃 – 1	〃			3	GND	G		GND	

SP 8400DN Harness Pin Assignment (Mainframe)

Harness Information				From/To Information							
Part Number	Start	End	Color	From		Pin No.	Logical Signal Name	I/O	To	Signal Name	Note
D2895302 (Mainframe)	CN127 – 1	CN1 – 4	Orange	BCU	CN127	1	NTBDRMT_A	→	Toner Supply Motor	Phase A	
	〃 – 2	〃 – 3	〃			2	NTBDRMT_XA	→		Phase XA	
	〃 – 3	〃 – 2	〃			3	NTBDRMT_B	→		Phase B	
	〃 – 4	〃 – 1	〃			4	NTBDRMT_XB	→		Phase XB	
D2895303 (Mainframe)	CN107 – 1	CN528 – 20	Orange		CN107	1	+24VS	P	IPU	24VS	
	〃 – 2	〃 – 19	〃			2	GND	G		GND	
	〃 – 3	〃 – 18	〃			3	GND	G		GND	
	〃 – 4	〃 – 17	〃			4	+24V	P		24V	
	〃 – 5	〃 – 16	〃			5	GND	G		GND	
	〃 – 6	〃 – 15	〃			6	+5VE_LPS	P		5VE_LPS	
	〃 – 7	〃 – 14	〃			7	+5V	P		5V	
	〃 – 8	〃 – 13	〃			8	+5V	P		5V	
	〃 – 9	〃 – 12	〃			9	GND	G		GND	
	〃 – 10	〃 – 11	〃			10	TIMER_UP_N0_I	←		Time: Eg. Off 0	
	〃 – 11	〃 – 10	〃			11	TIMER_UP_N1_I	←		Time: Eg. Off 1	
	〃 – 12	〃 – 9	〃			12	TIMER_UP_N2_I	←		Time: Eg. Off 2	
	〃 – 13	〃 – 8	〃			13	FUKKI_I	←		E.Save Recovery Signal	
	〃 – 14	〃 – 7	〃			14	ENGENABLE_N_I	←		L: Normal Launch H: Rapi Open Wait	
	〃 – 15	〃 – 6	〃			15	PONENG_N_I	←		E. Save Recovery Signal	
	〃 – 16	〃 – 5	〃			16	GAVD_SYCS_N_O	→		GMAC Sync Serial Chip Selection	
	〃 – 17	〃 – 4	〃			17	GMAC_SYCS_N_O	→		GMAC Sync Serial Chip Selection	
	〃 – 18	〃 – 3	〃			18	SYCLK_O	→		GAVD Sync Serial Clock	
	〃 – 19	〃 – 2	〃			19	SYDO_O	→		GAVD Sync Serial TX	
	〃 – 20	〃 – 1	〃			20	SYDI_I	←		GAVD Sync Serial RX	
D2895304 (Mainframe)	CN128 – 1	CN1 – 12	Orange	BCU	CN128	1	PWM_D	→	HVP CN800	HVP/Separation DC/(−): PWM	
	〃 – 2	〃 – 11	〃			2	ERR_D	←		HVP/Separation DC/(−): Fault Detection	
	〃 – 3	〃 – 10	〃			3	FB_T+	←		HVP/Transfer DC/(+): Voltage FB	
	〃 – 4	〃 – 9	〃			4	PWM_T−	→		HVP/Transfer DC/(−): PWM	
	〃 – 5	〃 – 8	〃			5	PWM_T+	→		HVP/Transfer DC/(+): PWM	
	〃 – 6	〃 – 7	〃			6	PWM_B	→		HVP/Development DC/(−): PWM	
	〃 – 7	〃 – 6	〃			7	PWM_C	→		HVP/Charge DC/(−): PWM	
	〃 – 8	〃 – 5	〃			8	ERR_T	←		HVP/Transfer DC/(+)&(−): Fault Detection	
	〃 – 9	〃 – 4	〃			9	ERR_B	←		HVP/Development DC/(−): Fault Detection	
	〃 – 10	〃 – 3	〃			10	ERR_C	←		HVP/Charge DC/(−): Fault Detection	
	〃 – 11	〃 – 2	〃			11	GND	G		GND	
	〃 – 12	〃 – 1	〃			12	+24VS	P		+24VS	
D2895305 (Mainframe)	CN135 – 1	CN1 – 16	Brown	BCU	CN135	1	CBANK_RXD	←	Paper Bank	BANK: UART RXD	
	〃 – 2	〃 – 14	〃			2	CBANK_TXD	→		BANK: UART TXD	
	〃 – 3	〃 – 12	〃			3	GND	G		BANK:GND	
	〃 – 4	〃 – 10	〃			4	GND	G		BANK:GND	
	〃 – 5	〃 – 8	〃			5	+5V	P		BANK:+5V	
	〃 – 6	〃 – 6	〃			6	+5V	P		BANK:+5V	
	〃 – 7	〃 – 4	〃			7	GND	G		BANK:GND	
	〃 – 8	〃 – 3	〃			8	GND	G		BANK:GND	
	〃 – 9	〃 – 5	〃			9	GND	G		BANK:GND	
	〃 – 10	〃 – 7	〃			10	GND	G		BANK:GND	
	〃 – 11	〃 – 9	〃			11	+24V	P		BANK:+24V	
	〃 – 12	〃 – 11	〃			12	+24V	P		BANK:+24V	
	〃 – 13	〃 – 13	〃			13	+24V	P		BANK:+24V	
	〃 – 14	〃 – 15	〃			14	+24V	P		BANK:+24V	
	–	〃 – 1	–			–	NC	N		N.C.	
	–	〃 – 2	–			–	NC	N		N.C.	
	–	〃 – 17	–			–	NC	N		N.C.	
	–	〃 – 18	–			–	NC	N		N.C.	
	–	CN3 – 8	–		CN137	–	–	–	–	–	
	CN137 – 1	〃 – 7	Purple			1	EFIN_RXD	←	Finisher	Finisher: UARTRX	
	–	〃 – 6	–			–	–	–	–	–	
	CN137 – 2	〃 – 5	Purple			2	EFIN_TXD	→	Finisher	Finisher: UARTTX	
	–	〃 – 4	–			–	–	–	–	–	
	–	〃 – 3	–			–	–	–	–	–	
	CN137 – 3	〃 – 2	Purple			3	GND	G	Finisher	GND	
	〃 – 4	〃 – 1	〃			4	GND	G		GND	
	〃 – 5	CN4 – 9	〃			5	GND	G		GND	
	〃 – 6	〃 – 8	〃			6	GND	G		GND	
	〃 – 7	〃 – 7	〃			7	GND	G		GND	
	〃 – 8	〃 – 6	〃			8	GND	G		GND	
	〃 – 9	〃 – 5	〃			9	+24V	P		+24V	
	〃 – 10	〃 – 4	〃			10	+24V	P		+24V	
	〃 – 11	〃 – 3	〃			11	+24V	P		+24V	
	〃 – 12	〃 – 2	〃			12	+24V	P		+24V	
	–	〃 – 1	–			–	–	–	–	–	
D2025306 (Mainframe)	CN5 – 1	CN1 – 3	Purple	D2895313	CN5	1	GND	G	Toner Collection Full Sensor	GND	
	〃 – 2	〃 – 2	〃			2	LWBNFSN_SNS	←		Toner Collection Full Sensor	
	〃 – 3	〃 – 1	〃			3	+5V_IO	P		+5V_IO	
D2025307 (Minframe)	CN10 – 1	CN1 – 2	Purple	D2895313	CN10	1	PHRDQLE_LED-K	→	Quenching Lamp	Quenching Lamp: OUT	
	〃 – 2	〃 – 1	〃			2	+24VS	P		+24VS	
M0AN2308 (Mainframe)	–	CN6 – 11	–	M0AN5321 /M0AN5318	CN18	–	–	–	–	N.C.	from:BCU(CN115) ↓ M0AN5321/M0AN5318(Mainframe) ↓ M0AN5308(Mainframe) ↓ M0AN5362(Mainframe Drawer) ↓ end to: Electrical Components
	CN1 – 1	〃 – 10	Light Blue			17	FFR_TSFR_SN-C	←	NC Sensor(End)	NC Sensor(End):Compensation	
	〃 – 2	〃 – 9	〃			16	FFR_TSFR_SN-D	←		NC Sensor(End):Detection	
	〃 – 3	〃 – 8	〃			15	GND	G		GND	
	〃 – 4	〃 – 7	〃			14	FFR_TSBC_SN-C	←	NC Sensor(End)	NC Sensor(End):Compensation	
	〃 – 5	〃 – 6	〃			13	FFR_TSBC_SN-D	←		NC Sensor(End):Detection	
	〃 – 6	〃 – 5	〃			12	GND	G		GND	
	〃 – 7	〃 – 4	〃			11	FFUNWFU_IN	→	Fusing Unit New Detection Fuse	Fusing Unit New Detection Fuse: Trigger	
	〃 – 8	〃 – 3	〃			10	GND	G		GND For FUSE	
	–	〃 – 2	–			–	–	–	–	N.C.	
	–	〃 – 1	–			–	–	–	–	N.C.	
	–	CN5 – 13	–			–	–	–	–	N.C.	
	–	〃 – 12	–			–	–	–	–	N.C.	
	CN1 – 9	〃 – 11	Light Blue			9	FPR_TSFR_SN+	←	Pressure Roller Thermistor(End)	Pressure Roller Thermistor(End)	
	〃 – 10	〃 – 10	〃			8	GND	G	Thermistor(End)	GND	
	〃 – 11	〃 – 9	〃			7	FPR_TSBC_SN+	←	Pressure Roller	Pressure Roller Thermistor(Center)	
	〃 – 12	〃 – 8	〃			6	GND	G	Thermistor(Center)	GND	
	〃 – 13	〃 – 7	〃			5	FFU_SS_DOM	←	Set Detection Mechanism	Set Detection Mechanism: Japan	
	〃 – 14	〃 – 6	〃			4	FFU_SS_NA	←		Set Detection Mechanism: NA/TWN	
	〃 – 15	〃 – 5	〃			3	FFU_SS_EU	←		Set Detection Mechanism: EU	
	〃 – 16	〃 – 4	〃			2	GND	G		–	
	〃 – 17	〃 – 3	〃			1	GND	G		<MP4055/5055/6055>GND for Set Detection	
	–	〃 – 2	–			–	–	–	–	N.C.	
	–	〃 – 1	–			–	–	–	–	N.C.	
M0AN5309 (Mainframe)	CN1 – 1	CN2 – 6	Purple	M0AN5313	CN11	6	GND	G	TD Sensor	GND	from:BCU(CN118) →M0AN5313(Mainframe) →M0AN5308(Mainframe) →M0AN5310(Unit) →end to: TD Sensor in PCU
	〃 – 2	〃 – 5	〃			5	NTNODSN_VOUT	←		TD Sensor: Clock IN	
	〃 – 3	〃 – 4	〃			4	+3.3V_ID	P		<TD Sensor>3.3V	
	〃 – 4	〃 – 3	〃			3	NTNODSN_VTCNT	→		<TD Sensor>TD Sensor: SEL	
	〃 – 5	〃 – 2	〃			2	NTNODSN_SDA	⇔		TD Sensor: SDA	
	〃 – 6	〃 – 1	〃			1	NTNODSN_SCL	→		TD Sensor: SCL	
D2895320 (Mainframe)	CN114 – 1	CN1 – 10	Orange	BCU	CN114	1	FFU_MT_GA	→	Fusing/Paper Exit Motor	Fusing Motor: SW Gain	
	〃 – 2	〃 – 9	〃			2	FFU_MT_CLK	→		Fusing Motor: Clock	
	〃 – 3	〃 – 8	〃			3	FFU_MT_BRK_N	→		Fusing Motor: Brake	
	〃 – 4	〃 – 7	〃			4	FFU_MT_CW	→		Fusing Motor: Rotating Direction	
	〃 – 5	〃 – 6	〃			5	FFU_MT_STA_N	→		Fusing Motor: Start	
	〃 – 6	〃 – 5	〃			6	FFU_MT_LOK_N	←		Fusing Motor: Lock	
	〃 – 7	〃 – 4	〃			7	GND	G		GND	
	〃 – 8	〃 – 3	〃			8	GND	G		GND	
	〃 – 9	〃 – 2	〃			9	+24VS	P		+24VS	
	〃 – 10	〃 – 1	〃			10	+24VS	P		+24VS	
	CN113 – A1	CN2 – 8	〃		CN113	A1	CRG_MT_ENC-A	←	Registration Motor	Registration Motor: Encoder A	
	〃 – A2	〃 – 7	〃			A2	CRG_MT_ENC-B	←		Registration Motor: Encoder B	
	〃 – A3	〃 – 6	〃			A3	+5V_IO	P		+5V	
	〃 – A4	〃 – 5	〃			A4	CRG_MT_CW	→		Registration Motor: Rotating Direction	
	〃 – A5	〃 – 4	〃			A5	CRG_MT_PWM	→		Registration Motor: Clock	
	〃 – A6	〃 – 3	〃			A6	CRG_MT_BRK_N	→		Registration Motor: Brake	
	〃 – A7	〃 – 2	〃			A7	GND	G		GND	
	〃 – A8	〃 – 1	〃			A8	+24VS	P		+24VS	
	〃 – A9	CN6 – 8	〃			A9	EEX_MT_ENC-A	←	Paper Exit Motor	Paper Feed Motor: Encoder A	
	〃 – A10	〃 – 7	〃			A10	EEX_MT_ENC-B	←		Paper Feed Motor: Encoder B	
	〃 – A11	〃 – 6	〃			A11	+5V_IO	P		+5V_IO	
	〃 – A12	〃 – 5	〃			A12	EEX_MT_CW	→		Paper Feed Motor: Rotating Direction	
	〃 – A13	〃 – 4	〃			A13	EEX_MT_PWM	→		Paper Feed Motor: Clock	
	〃 – A14	〃 – 3	〃			A14	EEX_MT_BRK_N	→		Paper Feed Motor: Brake	
	〃 – A15	〃 – 2	〃			A15	GND	G		GND	
	〃 – A16	〃 – 1	〃			A16	+24VS	P		+24VS	
	〃 – A17	–	–			A17	NC	N	NC	NC	
	〃 – B1	–	–			B1	NC	N	NC	NC	
	〃 – B2	CN3 – 8	Orange			B2	CFDFEMT_ENC-A	←	Paper Feed Motor	Paper Feed Motor: Encoder A	
	〃 – B3	〃 – 7	〃			B3	CFDFEMT_ENC-B	←		Paper Feed Motor: Encoder B	
	〃 – B4	〃 – 6	〃			B4	+5V_IO	P		+5V	
	〃 – B5	〃 – 5	〃			B5	CFDFEMT_CW	→		Paper Feed Motor: Rotating Direction	
	〃 – B6	〃 – 4	〃			B6	CFDFEMT_PWM	→		Paper Feed Motor: Clock	
	〃 – B7	〃 – 3	〃			B7	CFDFEMT_BRK_N	→		Paper Feed Motor: Brake	
	〃 – B8	〃 – 2	〃			B8	GND	G		GND	
	〃 – B9	〃 – 1	〃			B9	+24VS	P		+24VS	
	〃 – B10	CN4 – 8	〃			B10	CFDPFMT_ENC-A	←	Vertical Transport Motor	Vertical Transport Motor: Encoder A	
	〃 – B11	〃 – 7	〃			B11	CFDPFMT_ENC-B	←		Vertical Transport Motor: Encoder B	
	〃 – B12	〃 – 6	〃			B12	+5V_IO	P		+5V	
	〃 – B13	〃 – 5	〃			B13	CFDPFMT_CW	→		Vertical Transport Motor: Rotating Direction	
	〃 – B14	〃 – 4	〃			B14	CFDPFMT_PWM	→		Vertical Transport Motor: Clock	
	〃 – B15	〃 – 3	〃			B15	CFDPFMT_BRK_N	→		Vertical Transport Motor: Brake	
	〃 – B16	〃 – 2	〃			B16	GND	G		GND	
	〃 – B17	〃 – 1	〃			B17	+24VS	P		+24VS	
	CN129 – 1	CN5 – 4	〃		CN129	1	+24V	P	Fusing Fan 1	Fusing Fan 1: +24V	
	〃 – 2	〃 – 3	〃			2	FFUSFFN_LOK	←		Fusing Fan 1: Lock Sensor Signal	
	〃 – 3	〃 – 2	〃			3	GND	G		Fusing Fan 1: GND	
	〃 – 4	〃 – 1	〃			4	FFUSFFN_PWM1	→		Fusing Fan 1: PWM Signal	
	〃 – 5	–	–			5	N.C.	N		N.C.	

SP 8400DN Harness Pin Assignment (Mainframe)

Harness Information				From/To Information							
Part Number	Start	End	Color	From		Pin No.	Logical Signal Name	I/O	To	Signal Name	Note
M0AN5321	CN110 – 1	CN1 – 14	Purple		CN110	1	+24VS	P	D1492708	+24VS	
(200V)	〃 – 2	〃 – 13	〃			2	CF1PUSL_OUT2	→	(1st Paper Feed Unit)	1st Pick-up Solenoid *Japan Only: PWM	
/M0AN5318	〃 – 3	〃 – 12	〃			3	GND	G		GND	
(Others)	〃 – 4	〃 – 11	〃			4	CF1SN_SNS	←	end to:	1st Paper Feed Sensor	from: BCU(CN110)
	〃 – 5	〃 – 10	〃			5	+5V_IO	P	*1st Paper Feed Sensor	+5V_IO	↓
(Mainframe)	〃 – 6	〃 – 9	〃			6	GND	G	*1st Paper End Sensor	GND	D2895321/D2865321(Mainframe)
	〃 – 7	〃 – 8	〃			7	CH1SN_SNS	←	*1st Paper Feed Tray Limit	1st Vertical Transport Sensor	↓
	〃 – 8	〃 – 7	〃			8	+5V_IO	P	Sensor	+5V_IO	D2022708
	〃 – 9	〃 – 6	〃			9	GND	G		GND	(1st Paper Feed Unit)
	〃 – 10	〃 – 5	〃			10	CT1PESN_SNS	←		1st Paper End Sensor	↓
	〃 – 11	〃 – 4	〃			11	+5V_IO	P		+5V_IO	end to: Electrical Components
	〃 – 12	〃 – 3	〃			12	GND	G		GND	
	〃 – 13	〃 – 2	〃			13	CT1ULSN_SNS	←		1st Paper Feed Tray Limit Sensor	
	〃 – 14	〃 – 1	〃			14	+5V_IO	P		+5V_IO	
	〃 – 15	–	–			15	NC	N	NC	NC	
	〃 – 16	–	–			16	NC	N	NC	NC	
	〃 – 17	CN2 – 5	Purple			17	CT1SZSW_SW4	←	1st Paper Feed Tray Size Switch	1st Paper Feed Tray Size Switch: 4	
	〃 – 18	〃 – 4	〃			18	GND	G	1st Paper Feed Tray Size	GND	
	〃 – 19	〃 – 3	〃			19	CT1SZSW_SW3	←	1st Paper Feed Tray Size	1st Paper Feed Tray Size Switch: 3	
	〃 – 20	〃 – 2	〃			20	CT1SZSW_SW2	←	1st Paper Feed Tray Size	1st Paper Feed Tray Size Switch: 2	
	〃 – 21	〃 – 1	〃			21	CT1SZSW_SW1	←	1st Paper Feed Tray Size	1st Paper Feed Tray Size Switch: 1	
	〃 – 22	CN3 – 5	〃			22	CT1UPMT_SW2	←	1st Paper Feed Tray Lift Motor2	1st Paper Feed Tray Lift Motor (Paper Remaining Sensor): 2	
	〃 – 23	〃 – 4	〃			23	GND	G	1st Paper Feed Tray Lift Motor	GND	
	〃 – 24	〃 – 3	〃			24	CT1UPMT_SW1	←	1st Paper Feed Tray Lift Motor1	1st Paper Feed Tray Lift Motor (Paper Remaining Sensor): 1	
	〃 – 25	〃 – 2	〃			25	CT1UPMT_OUT2	→	1st Paper Feed Tray Lift Motor	1st Paper Feed Tray Lift Motor: OUT/2	
	〃 – 26	〃 – 1	〃			26	CT1UPMT_OUT1	→		1st Paper Feed Tray Lift Motor: OUT/1	
	〃 – 27	CN4 – 2	〃			27	GND	G	1st Paper Feed Tray Set Switch	GND	
	〃 – 28	〃 – 1	〃			28	CT1STSW_SW1	←		1st Paper Feed Tray Set Switch	
	CN111 – 1	CN5 – 14	Purple		CN111	1	+24VS	P	D1492708	+24VS	
	〃 – 2	〃 – 13	〃			2	CF2PUSL_OUT2	→	(2nd Paper Feed Unit)	2nd Pick-up Solenoid *Japan Only: PWM	
	〃 – 3	〃 – 12	〃			3	GND	G		GND	
	〃 – 4	〃 – 11	〃			4	CF2SN_SNS	←	end to:	2nd Paper Feed Sensor	from: BCU(CN111)
	〃 – 5	〃 – 10	〃			5	+5V_IO	P	*2nd Paper Feed Sensor	+5V_IO	↓
	〃 – 6	〃 – 9	〃			6	GND	G	*2nd Paper End Sensor	GND	D2895321/D2865321(Mainframe)
	〃 – 7	〃 – 8	〃			7	CH2SN_SNS	←	*2nd Paper Feed Tray Limit	2nd Vertical Transport Sensor	↓
	〃 – 8	〃 – 7	〃			8	+5V_IO	P	Sensor	+5V_IO	D2022708
	〃 – 9	〃 – 6	〃			9	GND	G		GND	(2nd Paper Feed Unit)
	〃 – 10	〃 – 5	〃			10	CT2PESN_SNS	←		2nd Paper End Sensor	↓
	〃 – 11	〃 – 4	〃			11	+5V_IO	P		+5V_IO	end to: Electrical Components
	〃 – 12	〃 – 3	〃			12	GND	G		GND	
	〃 – 13	〃 – 2	〃			13	CT2ULSN_SNS	←		2nd Paper Feed Tray Limit Sensor	
	〃 – 14	〃 – 1	〃			14	+5V_IO	P		+5V_IO	
	〃 – 15	–	–			15	NC	N	NC	NC	
	〃 – 16	–	–			16	NC	N	NC	NC	
	〃 – 17	–	–			17	NC	N	NC	NC	
	〃 – 18	–	–			18	NC	N	NC	NC	
	〃 – 19	CN6 – 5	Purple			19	CT2SZSW_SW4	←	2nd Paper Feed Tray Size	2nd Paper Feed Tray Size Switch: 4	
	〃 – 20	〃 – 4	〃			20	GND	G	2nd Paper Feed Tray Size	GND	
	〃 – 21	〃 – 3	〃			21	CT2SZSW_SW3	←	2nd Paper Feed Tray Size	2nd Paper Feed Tray Size Switch: 3	
	〃 – 22	〃 – 2	〃			22	CT2SZSW_SW2	←	2nd Paper Feed Tray Size	2nd Paper Feed Tray Size Switch: 2	
	〃 – 23	〃 – 1	〃			23	CT2SZSW_SW1	←	2nd Paper Feed Tray Size	2nd Paper Feed Tray Size Switch: 1	
	〃 – 24	CN7 – 5	〃			24	CT2UPMT_SW2	←	2nd Paper Feed Tray Lift Motor 2 (Paper Remaining Sensor)	2nd Paper Feed Tray Lift Motor (Paper Remaining Sensor): 2	
	〃 – 25	〃 – 4	〃			25	GND	G	2nd Paper Feed Tray Lift Motor	GND	
	〃 – 26	〃 – 3	〃			26	CT2UPMT_SW1	←	2nd Paper Feed Tray Lift Motor 1 (Paper Remaining Sensor)	2nd Paper Feed Tray Lift Motor (Paper Remaining Sensor): 1	
	〃 – 27	〃 – 2	〃			27	CT2UPMT_OUT2	→	2nd Paper Feed Tray Lift Motor	2nd Paper Feed Tray Lift Motor: OUT/2	
	〃 – 28	〃 – 1	〃			28	CT2UPMT_OUT1	→		2nd Paper Feed Tray Lift Motor: OUT/1	
	〃 – 29	CN8 – 2	〃			29	GND	G	2nd Paper Feed Tray Set Switch	GND	
	〃 – 30	〃 – 1	〃			30	CT2STSW_SW1	←		2nd Paper Feed Tray Set Switch	
	CN124 – 1	CN9 – 18	Orange	BCU	CN124	1	+24VS	P	D2024499	+24VS	
	〃 – 2	〃 – 17	〃			2	EEXDVSL_OUT2	→	(Paper Exit Unit)	Paper Exit Switching Solenoid: PWM	
	〃 – 3	〃 – 16	〃			3	GND	G		GND	
	〃 – 4	〃 – 15	〃			4	RRV_SN_SNS	←	end to:	Reverse Sensor	
	〃 – 5	〃 – 14	〃			5	+5V_IO	P	*Paper Exit Switching Solenoid	+5V_IO	
	〃 – 6	〃 – 13	〃			6	GND	G		GND	
	〃 – 7	〃 – 12	〃			7	EEX_SN_SNS	←	*Reverse Sensor	Paper Exit Sensor	from: BCU(CN124、CN125)
	〃 – 8	〃 – 11	〃			8	+5V_IO	P	*Paper Exit Sensor	+5V_IO	↓
	〃 – 9	〃 – 10	〃			9	GND	G	*Paper Exit Full Sensor	GND	D2895321/D2865321(Mainframe)
	〃 – 10	〃 – 9	〃			10	EEXFLSN_SNS	←	*Fusing Exit Sensor	Paper Exit Full Sensor	↓
	〃 – 11	〃 – 8	〃			11	+5V_IO	P	*Reverse Motor	+5V_IO	D2024499(Paper Exit)
	〃 – 12	〃 – 7	〃			12	GND	G		GND	↓
	〃 – 13	〃 – 6	〃			13	FFUOUSN_SNS	←		Fusing Exit Sensor	end to: Electrical Components
	〃 – 14	〃 – 5	〃			14	+5V_IO	P		+5V_IO	
	CN125 – 1	〃 – 4	〃		CN125	1	RRV_MT_XB	→		Phase XB	
	〃 – 2	〃 – 3	〃			2	RRV_MT_B	→		Phase B	
	〃 – 3	〃 – 2	〃			3	RRV_MT_XA	→		Phase XA	
	〃 – 4	〃 – 1	〃			4	RRV_MT_A	→		Phase A	
	CN115 – A1	CN18 – 17	White		CN115	A1	FFR_TSFR_SN-C	←	M0AN2308	Fusing Roller Temperature Sensor (End): Compensa	
	〃 – A2	〃 – 16	〃			A2	FFR_TSFR_SN-D	←		Fusing Roller Temperature Sensor (End): Detection	
	〃 – A3	〃 – 15	〃			A3	GND	G		GND	
	〃 – A4	〃 – 14	〃			A4	FFR_TSBC_SN-C	←		Fusing Roller Temperature Sensor (Center): Compe	
	〃 – A5	〃 – 13	〃			A5	FFR_TSBC_SN-D	←		Fusing Roller Temperature Sensor (Center): Detect	
	〃 – A6	〃 – 12	〃			A6	GND	G		GND	from:BCU(CN115)
	〃 – A7	〃 – 11	〃			A7	FFUNWFU_IN	→		Fusing Unit New Detection Fuse: Trigger	↓
	〃 – A8	〃 – 10	〃			A8	GND	G		GND For FUSE	M0AN5321/M0AN5318(Mainframe)
	〃 – A9	〃 – 9	〃			A9	FPR_TSFR_SN+	←		Pressure Roller Temperature Sensor (End)	↓
	〃 – A10	〃 – 8	〃			A10	GND	G		GND	M0AN5308(Mainframe)
	〃 – A11	〃 – 7	〃			A11	FPR_TSBC_SN+	←		Pressure Roller Temperature Sensor (Center)	↓
	〃 – A12	〃 – 6	〃			A12	GND	G		GND	M0AN5362(Mainframe Drawer)
	〃 – A13	〃 – 5	〃			A13	FFU_SS_DOM	←		Set Detection Mechanism: Japan	↓
	〃 – A14	〃 – 4	〃			A14	FFU_SS_NA	←		Set Detection Mechanism: NA/TWN	end to: Electrical Components
	〃 – A15	〃 – 3	〃			A15	FFU_SS_EU	←		Set Detection Mechanism: EU	
	〃 – A16	〃 – 2	–			A16	GND	G		–	
	〃 – A17	〃 – 1	White			A17	GND	G		GND for Set Detection	
	〃 – A18	–	–			A18	NC	N	NC	NC	
	〃 – A19	–	–			A19	NC	N	NC	NC	
	CN115 – B1	CN12 – 3	Purple			B1	GND	G	D2022556(Registration)	GND	from: BCU(CN115)→D2895321/D2865321
	〃 – B2	〃 – 2	〃			B2	CRG_SN_SNS	←	end to: Registration Sensor	Registration Sensor	(Mainframe)→D2022556(Registration) →
	〃 – B3	〃 – 1	〃			B3	+5V_IO	P		Power: +5V	end to: Registration Sensor
	〃 – B4	CN13 – 3	〃			B4	GND	G	Transfer Unit Open/Close	GND	
	〃 – B5	〃 – 2	〃			B5	TTSOCSN_SNS	←	Sensor	Transfer Unit Open/Close Sensor	
	〃 – B6	〃 – 1	〃			B6	+5V_IO	P		+5V	
	〃 – B7	–	–			B7	GND	G	Right Cover Open/Close	N.C.	
	〃 – B8	–	–			B8	MRDOCSW_SW1	←	Switch	N.C.	
	〃 – B9	–	–			B9	NC	N	NC	N.C.	
	〃 – B10	–	–			B10	NC	N	NC	N.C.	
	〃 – B11	CN16 – 9	Purple			B11	PDRPNSN_V-C	←	D2026237	ID Sensor:CENTER Regular Reflection Sensor Out	
	〃 – B12	〃 – 8	〃			B12	PDRPNSN_L-C	→	(Transfer Unit)	ID Sensor:CENTER LED Drive	from: BCU(CN115)
	〃 – B13	〃 – 7	〃			B13	GND	G		ID Sensor:GND	↓
	〃 – B14	〃 – 6	〃			B14	+3.3V	P	end to:	ID Sensor:+VCC Power	D2895321/D2865321(Mainframe)
	〃 – B15	〃 – 5	〃			B15	TTSOCLE_LED-K	→	*ID Sensor	Transfer Unit Open/Close LED:CATHODE	↓
	〃 – B16	〃 – 4	〃			B16	+5V_IO	P	*Transfer Unit Open/Close LED	Transfer Unit Open/Close LED:ANODE	D2026237(Transfer Unit)
	〃 – B17	〃 – 3	〃			B17	GND	G		Fusing Entrance Sensor:GND	↓
	〃 – B18	〃 – 2	〃			B18	FFUINSN_SNS	←	*Fusing Entrance Sensor	Fusing Entrance Sensor:Out	end to: Electrical Components
	〃 – B19	〃 – 1	〃			B19	+5V_IO	P		Fusing Entrance Sensor:Power +5	
	CN146 – 1	CN16 – 11	Purple		CN146	1	TTSNWFU_IN	O	Transfer Unit New Detection Fuse	Transfer Unit New Detection:Fuse:Trigger	
	〃 – 2	〃 – 10	〃			2	GND	G		Transfer Unit New Detection:Fuse:GND	
	〃 – 3	CN19 – 2	〃			3	GND	G	Waste Toner Bottle Detection Switch	Waste Toner Bottle Detection Switch:OUT/2	
	〃 – 4	〃 – 1	〃			4	LWBSTSW_SW2	I		Waste Toner Bottle Detection Switch:OUT/1	
	〃 – 5	–	–			5	N.C.	N	NC	N.C.	
	〃 – 6	–	–			6	N.C.	N	NC	N.C.	
	CN318 – 1	CN14 – 2	Purple	IPU	CN318	1	GND	G	Right Cover Open/Close Switch	Right Cover Open/Close Switch: OUT/2	
	〃 – 2	–	–			2	NC	N		N.C.	
	〃 – 3	–	–			3	5V	P		N.C.	
	〃 – 4	–	–			4	GND	G		N.C.	
	〃 – 5	CN14 – 1	Purple			5	XAKS	←		Right Cover Open/Close Switch: OUT/1	
	〃 – 6	–	–			6	GND	G		N.C.	
Only M0AN5321	CN148 – 1	CN15 – 4	Orange	BCU	CN148	1	+24V	P	Fusing Fan 2	+24V	
(Mainframe)	〃 – 2	〃 – 3	〃			2	RSVFN2_LOK	I		Fusing Fan 2 : Lock	
	〃 – 3	〃 – 2	〃			3	GND	G		GND	
	〃 – 4	〃 – 1	〃			4	FFUSFFN_PWM1	O		Fusing Fan 2 :PWM Signal	

SP 8400DN Harness Pin Assignment (Mainframe)

Harness Information				From/To Information							
Part Number	Start	End	Color	From		Pin No.	Logical Signal Name	I/O	To	Signal Name	Note
D2895322 (Mainframe)	CN911 – 1	CN542 – 5	Yellow	PSU	CN911	1	+5VX	P	IPU CN542-5	+5VX	
	〃 – 2	〃 – 4	〃			2	+5VX	P	IPU CN542-4	+5VX	
	〃 – 3	〃 – 3	〃			3	+5V	P	IPU CN542-3	+5V	
	〃 – 4	〃 – 2	Black			4	GND	G	IPU CN542-2	GND	
	〃 – 5	〃 – 1	〃			5	GND	G	IPU CN542-1	GND	
	CN912 – 1	CN544 – 1	Black		CN912	1	GND	G	IPU CN544-1	IPU:GND	
	〃 – 2	CN119 – 1	〃			2	GND	G	BCU CN119-1	BCU:GND	
	〃 – 3	〃 – 2	〃			3	GND	G	BCU CN119-2	BCU:GND	
	〃 – 4	CN544 – 2	Orange			4	+24V	P	IPU CN544-2	IPU:24V	
	〃 – 5	CN119 – 3	〃			5	+24V	P	BCU CN119-3	BCU:24V	
	〃 – 6	〃 – 4	〃			6	+24V	P	BCU CN119-4	BCU:24V	
	CN913 – 1	CN2 – 2	White		CN913	1	JIGU-24V	P	Relay Tool	Relay Tool: ＋	
	〃 – 2	〃 – 1	〃			2	JIGU-TRG	←		Relay Tool: －	
	〃 – 3	CN120 – 10	〃			3	+24VS	P	BCU CN120-10	+24V Interlock: Power	
	〃 – 4	〃 – 9	〃			4	GND	G	BCU CN120-9	GND	
	〃 – 5	〃 – 8	〃			5	PSU_ZERX1_N	→	BCU CN120-8	Zero-Cross Signal 1	
	〃 – 6	〃 – 7	〃			6	PONENG_N	←	BCU CN120-7	Energy Save Signal	
	〃 – 7	〃 – 6	〃			7	PSU_HTRY1_P	←	BCU CN120-6	Fusing Relay Trigger 1	
	〃 – 8	〃 – 5	〃			8	TRG_HT1	←	BCU CN120-5	Fusing Heater 1 Trigger	
	〃 – 9	〃 – 4	〃			9	TRG_HT2	←	BCU CN120-4	Fusing Heater 2 Trigger	
	〃 – 10	–	–			10	TRG_HT3	N	NC	N.C	
	〃 – 11	CN120 – 3	White			11	PSU_HTRY2_P	←	BCU CN120-3	Fusing Relay Trigger 2 (DH)	
	〃 – 12	〃 – 2	〃			12	ACV	→	BCU CN120-2	AC Input Voltage Detection (DH)	
	〃 – 13	〃 – 1	〃			13	PSU_ZERX2_N	→	BCU CN120-1	Zero-Cross Signal 2 (DH)	
	CN1 – 3	CN130 – 1	〃	BCU	CN130	1	MHDEFFN_OUT1	→	Development Exhaust Fan	Development Exhaust Fan: ON	
	〃 – 2	〃 – 2	〃			2	MHDEFFN_LOK	←		Development Exhaust Fan: Lock	
	〃 – 1	〃 – 3	〃			3	GND	G		GND	
	CN4 – 3	〃 – 4	〃			4	QPSCLFN_OUT1	→	PSU Cooling Fan	PSU Cooling Fan: ON	
	〃 – 2	〃 – 5	〃			5	QPSCLFN_LOK	←		PSU Cooling Fan: Lock	
	〃 – 1	〃 – 6	〃			6	GND	G		GND	
		〃 – 7	〃			7	N.C.	N	NC	N.C.	
		〃 – 8	〃			8	N.C.	N	NC	N.C.	
		〃 – 9	〃			9	N.C.	N	NC	N.C.	
D2895340 (Mainframe)	CN122 – 1	CN1 – 2	Orange	BCU	CN122	1	+24VS	P	Interlock Switch	Interlock Switch	BCU – Interlock Switch
	CN1 – 1	CN2 – 2	〃			–	–	–	–	–	Interlock Switch – Interlock Switch
	CN2 – 1	CN122 – 2	〃			2	+24VL	P	Interlock Switch	+24V	BCU – Interlock Switch
D2025351 (Mainframe)	T3	T7	Red	HVP	T	1	HVP:T	→	Transfer Roller	Transfer	DC High Voltage
	T1	T5	〃		C	1	HVP:C	→	Charge Roller	Charge	
	T2	T6	〃		B	1	HVP:B	→	Development Roller	Development	
	T4	T8	〃		D	1	HVP:D	→	Separation	Separation	
D2025362 (Mainframe)	CN902 – 1	CN1 – 6	White	PSU	CN902	1	HT2-N	P	Fusing Unit (Fusing Heater/Lamp)	Fusing Heater/Lamp: Sub: N	
	〃 – 2	〃 – 5	〃			2	HT1-N	P		Fusing Heater/Lamp: Main: N	
	〃 – 3	〃 – 4	Black			3	HT1,2-L	P		Fusing Heater/Lamp: L	
	–	〃 – 3	–	–	–	–	N.C.	N	NC	N.C.	
	–	〃 – 2	–	–	–	–	N.C.	N	NC	N.C.	
	T1 –	〃 – 1G	Green/Yellow	Drawer	–	–	–	–	Earth		
D2895374 (Mainframe)	CN1 – 1	CN2 – 50	FFC	BCU	CN106	1	FFC_IPU	→	IPU	FFC Connection Detection	
	〃 – 2	〃 – 49				2	CIS_DET_N_I	←		ADF Set Detection	
	〃 – 3	〃 – 48				3	IPU_WAKE_I	←		IPU Launch Detection	
	〃 – 4	〃 – 47				4	ADF_RXD_I	←		ADF RXD	
	〃 – 5	〃 – 46				5	ADF_TXD_O	→		ADF TXD	
	〃 – 6	〃 – 45				6	M2P_RST_N	→		Memory to plotter: Reset	
	〃 – 7	〃 – 44				7	IPU_INT_N_I	←		IPU Interrupt	
	〃 – 8	〃 – 43				8	IPU_RD_N	→		IPU Read	
	〃 – 9	〃 – 42				9	IPU_WR_N	→		IPU Write	
	〃 – 10	〃 – 41				10	IPU_D(0)	B		IPU Data Bus 0	
	〃 – 11	〃 – 40				11	IPU_D(1)	B		IPU Data Bus 1	
	〃 – 12	〃 – 39				12	IPU_D(2)	B		IPU Data Bus 2	
	〃 – 13	〃 – 38				13	IPU_D(3)	B		IPU Data Bus 3	
	〃 – 14	〃 – 37				14	IPU_D(4)	B		IPU Data Bus 4	
	〃 – 15	〃 – 36				15	IPU_D(5)	B		IPU Data Bus 5	
	〃 – 16	〃 – 35				16	IPU_D(6)	B		IPU Data Bus 6	
	〃 – 17	〃 – 34				17	IPU_D(7)	B		IPU Data Bus 7	
	〃 – 18	〃 – 33				18	GND	G		GND	
	〃 – 19	〃 – 32				19	IPU_D(8)	B		IPU Data Bus 8	
	〃 – 20	〃 – 31				20	IPU_D(9)	B		IPU Data Bus 9	
	〃 – 21	〃 – 30				21	IPU_D(10)	B		IPU Data Bus 10	
	〃 – 22	〃 – 29				22	IPU_D(11)	B		IPU Data Bus 11	
	〃 – 23	〃 – 28				23	IPU_D(12)	B		IPU Data Bus 12	
	〃 – 24	〃 – 27				24	IPU_D(13)	B		IPU Data Bus 13	
	〃 – 25	〃 – 26				25	IPU_D(14)	B		IPU Data Bus 14	
	〃 – 26	〃 – 25				26	IPU_D(15)	B		IPU Data Bus 15	
	〃 – 27	〃 – 24				27	GND	G		GND	
	〃 – 28	〃 – 23				28	IPU_A(1)	→		IPU Address Bus 1	
	〃 – 29	〃 – 22				29	IPU_A(2)	→		IPU Address Bus 2	
	〃 – 30	〃 – 21				30	IPU_A(3)	→		IPU Address Bus 3	
	〃 – 31	〃 – 20				31	IPU_A(4)	→		IPU Address Bus 4	
	〃 – 32	〃 – 19				32	IPU_A(5)	→		IPU Address Bus 5	
	〃 – 33	〃 – 18				33	IPU_A(6)	→		IIPU Address Bus 6	
	〃 – 34	〃 – 17				34	IPU_A(7)	→		IPU Address Bus 7	
	〃 – 35	〃 – 16				35	IPU_A(8)	→		IPU Address Bus 8	
	〃 – 36	〃 – 15				36	IPU_A(9)	→		IPU Address Bus 9	
	〃 – 37	〃 – 14				37	GND	G		GND	
	〃 – 38	〃 – 13				38	IPU_A(10)	→		IPU Address Bus 10	
	〃 – 39	〃 – 12				39	IPU_A(11)	→		IPU Address Bus 11	
	〃 – 40	〃 – 11				40	IPU_A(12)	→		IPU Address Bus 12	
	〃 – 41	〃 – 10				41	IPU_A(13)	→		IPU Address Bus 13	
	〃 – 42	〃 – 9				42	IPU_A(14)	→		IPU Address Bus 14	
	〃 – 43	〃 – 8				43	IPU_A(15)	→		IPU Address Bus 15	
	〃 – 44	〃 – 7				44	IPU_A(16)	→		IPU Address Bus 16	
	〃 – 45	〃 – 6				45	IPU_A(17)	→		IPU Address Bus 17	
	〃 – 46	〃 – 5				46	IPU_A(18)	→		GND	
	〃 – 47	〃 – 4				47	GND	G		GND	
	〃 – 48	〃 – 3				48	IPU_CS_N_O	→		BREIT Chip Selection	
	〃 – 49	〃 – 2				49	GND	G		GND	
	〃 – 50	〃 – 1				50	FB_FFC_IPU_I	←		FFC Connection Detection	
D2025385 (Mainframe)	INLET_L	T900	Black	PSU	T900	1	AC-IN/L	P	Power Cord	AC Input: L	
	INLET_N	T901	White		T901	1	AC-IN/N	P		AC Input: N	
	INLET_E	T1	Green/Yellow	Earth					Body	Ground	
D2025396 (Mainframe)	CN121 – 1	CN930 – 3	Orange	BCU	CN121	1	+24V	P	DHB	+24V	
	〃 – 2	〃 – 2	〃			2	PSU_HURY_P	→		Dehumidifier Relay: PWM	
	〃 – 3	〃 – 1	〃			3	GND	G		GND	
D2025397 (Mainframe)	CN904 – 1	CN920 – 3	White	PSU	CN904	1	AC-OUT/N	P	DHB	AC Relay: N	
	〃 – 2	〃 – 2	–			2	NC	N		N.C	
	〃 – 3	〃 – 1	White			3	AC-OUT/L	P		AC Relay: L	
D2025398 (Mainframe)	CN921 – 1	CN1 – 2	White	DHB	CN921	1	AC_N_DEHUHT3	P	Paper Feed Heater	Paper Feed Heater: N	
	〃 – 2	CN2 – 2	〃			2	AC_N_DEHUHT4	P	Paper Bank Heater	Paper Bank Heater: N	
	〃 – 3	–	–			3	NC	N	NC	N.C	
	〃 – 4	CN1 – 1	White			4	AC_L_DEHUHT3	P	Paper Feed Heater	Paper Feed Heater: L	
	〃 – 5	CN2 – 1	〃			5	AC_L_DEHUHT4	P	Paper Bank Heater	Paper Bank Heater: L	
M0AN5399 (Mainframe)	CN922 – 1	–	–	DHB	CN922	1	AC_N_DEHUHT1	P	NC	N.C.	
	〃 – 2	CN2 – 2	White			2	AC_N_DEHUHT2	P	Anti-condensation Heater (PCU	Anti-condensation Heater (PCU): N	
	〃 – 3	–	–			3	AC_L_DEHUHT1	P	NC	N.C.	
	〃 – 4	CN3 – 2	White			4	AC_L_DEHUHT2	P	Anti-condensation Heater (PCU	Anti-condensation Heater (PCU):L:Thermostat	
	CN2 – 1	CN3 – 1	〃			–	AC_N_DEHUHT2	P	Anti-condensation Heater (PCU	Anti-condensation Heater (PCU): Thermostat: Relay	

SP 8400DN Harness Pin Assignment (Mainframe)

Harness Information					From/To Information							
Part Number	Start		End		Color	From		Pin No.	Logical Signal Name	I/O	To	Signal Name	Note
D2894694 (Duplex Unit)	CN123	A1	CN1	8	Orange	BCU	CN123	A1	RDPINMT_ENC-A	←	Duplex Entrance Motor	Duplex Entrance Motor: Encoder A	
	〃	A2	〃	7	〃			A2	RDPINMT_ENC-B	←		Duplex Entrance Motor: Encoder B	
	〃	A3	〃	6	〃			A3	+5V_IO	P		+5V_IO	
	〃	A4	〃	5	〃			A4	RDPINMT_CW	→		Duplex Entrance Motor: Rotating Direction	
	〃	A5	〃	4	〃			A5	RDPINMT_PWM	→		Duplex Entrance Motor: Clock	
	〃	A6	〃	3	〃			A6	RDPINMT_BRK_N	→		Duplex Entrance Motor: Brake	
	〃	A7	〃	2	〃			A7	GND	G		GND	
	〃	A8	〃	1	〃			A8	+24VS	P		+24VS	
	〃	A9	CN2	3	〃			A9	GND	G	D2894694	GND	from:BCU(CN123)→D2894694(Duplex Unit)
	〃	A10	〃	2	〃			A10	RDPINSN_SNS	←	(Duplex Unit)	Duplex Entrance Sensor	→D2024672(Duplex Unit)→end to:Electrical
	〃	A11	〃	1	〃			A11	+5V_IO	P	end to: Duplex Entrance	+5V_IO	Components
	〃	A12			-			A12	NC	N	NC	NC	
	〃	A13			-			A13	NC	N	NC	NC	
	〃	B1	CN3	8	Orange			B1	HDP_MT_ENC-A	←	Duplex/Bypass Motor	Duplex/By-pass Motor: Encoder A	
	〃	B2	〃	7	〃			B2	HDP_MT_ENC-B	←		Duplex/By-pass Motor: Encoder B	
	〃	B3	〃	6	〃			B3	+5V_IO	P		+5V	
	〃	B4	〃	5	〃			B4	HDP_MT_CW	→		Duplex/By-pass Motor: Rotating Direction	
	〃	B5	〃	4	〃			B5	HDP_MT_PWM	→		Duplex/By-pass Motor: Clock	
	〃	B6	〃	3	〃			B6	HDP_MT_BRK_N	→		Duplex/By-pass Motor: Brake	
	〃	B7	〃	2	〃			B7	GND	G		GND	
	〃	B8	〃	1	〃			B8	+24VS	P		+24VS	
	〃	B9	CN4	3	〃			B9	GND	G	Duplex Exit Sensor	GND	
	〃	B10	〃	2	〃			B10	RDPOUSN_SNS	←		Duplex Exit Sensor	
	〃	B11	〃	1	〃			B11	+5V_IO	P		+5V_IO	
	〃	B12	CN5	2	〃			B12	GND	G	Duplex Guide Switch	GND	
	〃	B13	〃	1	〃			B13	RGPOCSN_SW1	←		Duplex Guide Switch	
	CN112	1	CN6	5	Purple		CN112	1	+24VS	P	D2022643	+24VS	from: BCU(CN112)
	〃	2	〃	4	〃			2	HHDPUSL_OUT2	→	(Bypass Unit)	Bypass Pick-up Solenoid: PWM	→D2024695(Duplex Unit)
	〃	3	〃	3	〃			3	GND	G	end to:	GND	→D2022643(Bypass Unit)
	〃	4	〃	2	〃			4	HHDPESN_SNS	←	*Bypass Pick-up Solenoid	Bypass Paper End Sensor	→end to: Electrical Components
	〃	5	〃	1	〃			5	+5V_IO	P	*Bypass Paper End Sensor	+5V_IO	
	〃	6	CN7	8	〃			6	HHDMLSW_SW2	←	D2022645	Bypass Length Sensor: 2	from: BCU(CN112)
	〃	7	〃	7	〃			7	HHDMLSW_SW1	←	(Bypass Unit)	Bypass Length Sensor: 1	↓
	〃	8	〃	6	〃			8	GND	G		GND	D2024695(Duplex Unit)
	〃	9	〃	5	〃			9	HHDMLSW_SW4	←	end to:	Bypass Length Sensor: 4	↓
	〃	10	〃	4	〃			10	HHDMLSW_SW3	←	*Bypass Length Sensor	Bypass Length Sensor: 3	D2022645(Bypass Unit)
	〃	11	〃	3	〃			11	GND	G	*Bypass Width Sensor (SW)	GND	↓
	〃	12	〃	2	〃			12	HHDSLSN_SNS	←		Bypass Width Sensor (SW)	end to: Electrical Components
	〃	13	〃	1	〃			13	+5V_IO	P		+5V_IO	
D2022643 (Bypass Unit)	CN1	1	CN6	3	Purple	D2894694 (Duplex Unit)	CN6	5	+24VS	P	Bypass Pickup Solenoid	+24VS	
	-		〃	2	-			-	NC	N		NC	from: BCU(CN112)
	CN1	2	〃	1	Purple			4	HHDPUSL_OUT2	→		Bypass Pickup Solenoid: PWM	→D2024695(Duplex Unit)
	〃	3	〃	3	〃			3	GND	G	Bypass Paper End Sensor	GND	→D2022643(Bypass Unit)
	〃	4	〃	2	〃			2	HHDPESN_SNS	←		Bypass Paper End Sensor	→end to: Electrical Components
	〃	5	CN7	1	〃			1	+5V_IO	P		+5V_IO	
D2022671 (Bypass Unit)	CN1	1	CN6	5	Purple	D2894694 (Duplex Unit)	CN7	8	HHDMLSW_SW2	←	Bypass Width Sensor (Bypass Width Switch)	Bypass Width Sensor (Bypass Width Switch) 2	from: BCU(CN112)
	〃	2	〃	4	〃			7	HHDMLSW_SW1	←		Bypass Width Sensor (Bypass Width Switch) 1	↓
	〃	3	〃	3	〃			6	GND	G		GND	D2024695(Duplex Unit)
	〃	4	〃	2	〃			5	HHDMLSW_SW4	←		Bypass Width Sensor (Bypass Width Switch) 4	↓
	〃	5	〃	1	〃			4	HHDMLSW_SW3	←		Bypass Width Sensor (Bypass Width Switch) 3	D2022645(Bypass Unit)
	〃	6	CN7	3	〃			3	GND	G	Bypass Length Sensor	GND	↓
	〃	7		2	〃			2	HHDSLSN_SNS	←		Bypass Length Sensor	end to: Electrical Components
	〃	8		1	〃			1	+5V_IO	P		+5V_IO	
	T1		T2		〃		-	-	Earth	-	Earth	Earth	
	T2		T4		〃		-	-	Earth	-	Earth	Earth	
D2024672 (Duplex Unit)	CN1	1	CN2	3	Orange	D2894694 (Duplex Unit)	CN2	3	GND	G	D2024695	GND	from:BCU(CN123)→D2894694(Duplex Unit)
	〃	2	〃	2	〃			2	RDPINSN_SNS	←	(Duplex Unit)	Duplex Entrance Sensor	→D2024672(Duplex Unit)→end to:Electrical
	〃	3	〃	1	〃			1	+5V_IO	P	end to: Duplex Entrance	+5V_IO	Components
D2022708 (1st/2nd Paper Feed Unit)	CN1	1	CN6	2	Purple	D2895321/D 2865321 (Mainframe)	CN1(1st Paper Feed Unit) CN5(2nd Paper Feed Unit)	1	+24VS	P	D1492708	NC	
	〃	2	〃	1	〃			2	CF1PUSL_OUT2	→	(1st/2nd Paper Feed Unit)	NC	
	〃	3	CN2	3	〃			3	GND	G		GND	
	〃	4	〃	2	〃			4	CF1SN_SNS	←	end to:	1st/2nd Paper Feed Sensor	from: BCU(CN110/111)
	〃	5	〃	1	〃			5	+5V_IO	P	*1st/2nd Paper Feed Sensor	+5V_IO	↓
	〃	6	CN3	3	〃			6	GND	G	*1st/2nd Paper End Sensor	GND	D2895321/D2865321(Mainframe)
	〃	7	〃	2	〃			7	CH1SN_SNS	←	*1st/2nd Paper Feed Tray Limit Sensor	1st/2nd Vertical Transport Sensor	↓
	〃	8	〃	1	〃			8	+5V_IO	P		+5V_IO	D2022708(1st/2nd Paper Feed Unit)
	〃	9	CN4	3	〃			9	GND	G		GND	↓
	〃	10	〃	2	〃			10	CT1PESN_SNS	←		1st/2nd Paper End Sensor	end to: Electrical Components
	〃	11	〃	1	〃			11	+5V_IO	P		+5V_IO	
	〃	12	CN5	3	〃			12	GND	G		GND	
	〃	13	〃	2	〃			13	CT1ULSN_SNS	←		1st/2nd Paper Feed Tray Limit Sensor	
	〃	14	〃	1	〃			14	+5V_IO	P		+5V_IO	
D2024499 (Paper Exit Unit)	CN1	1	CN2	2	Orange	D2895321/D 2865321 (Mainframe)	CN9	1	+24VS	P	Paper Exit Switching Solenoid	+24VS	
	〃	2	〃	1	〃			2	EEXDVSL_OUT2	→		Paper Exit Switching Solenoid: PWM	
	〃	3	CN3	3	〃			3	GND	G	Reverse Sensor	GND	
	〃	4	〃	2	〃			4	RRV_SN_SNS	←		Reverse Sensor	
	〃	5	〃	1	〃			5	+5V_IO	P		+5V_IO	
	〃	6	CN4	3	〃			6	GND	G	Paper Exit Sensor	GND	from: BCU(CN124、CN125)
	〃	7	〃	2	〃			7	EEX_SN_SNS	←		Paper Exit Sensor	↓
	〃	8	〃	1	〃			8	+5V_IO	P		+5V_IO	D2895321/D2865321(Mainframe)
	〃	9	CN5	3	〃			9	GND	G	Paper Exit Full Sensor	GND	↓
	〃	10	〃	2	〃			10	EEXFLSN_SNS	←		Paper Exit Full Sensor	D2024499(Paper Exit Unit)
	〃	11	〃	1	〃			11	+5V_IO	P		+5V_IO	↓
	〃	12	CN7	3	〃			12	GND	G	Fusing Exit Sensor	GND	end to: Electrical Components
	〃	13	〃	2	〃			13	FFUOUSN_SNS	←		Fusing Exit Sensor	
	〃	14	〃	1	〃			14	+5V_IO	P		+5V_IO	
	〃	15	CN6	4	〃			15	RRV_MT_XB	→	Reverse Motor	Phase XB	
	〃	16	〃	3	〃			16	RRV_MT_B	→		Phase B	
	〃	17	〃	2	〃			17	RRV_MT_XA	→		Phase XA	
	〃	18	〃	1	〃			18	RRV_MT_A	→		Phase A	
D2022556 (Registration)	CN1	1	CN2	3	Purple	D2895321/D 2865321 (Mainframe)	CN12	1	GND	G	D2022556(Registration)	GND	from: BCU(CN115)→D2895321/D2865321
	〃	2	〃	2	〃			2	CRG_SN_SNS	←	end to: Registration Sensor	Registration Sensor	(Mainframe)→D2022556(Registration) →
	〃	3	〃	1	〃			3	+5V_IO	P		+5V_IO	end to: Registration Sensor
D2026237 (Transfer Unit)	CN1	1	CN2	4	Purple	D2895321/D 2865321 (Mainframe)	CN16	1	PDRPNSN_V-C	←	ID Sensor	ID Sensor	
	〃	2	〃	3	〃			2	PDRPNSN_L-C	→		ID Sensor: PWM	from: BCU(CN115)
	〃	3	〃	2	〃			3	GND	G		GND	↓
	〃	4	CN3	1	〃			4	+3.3V	P		+3.3V	D2895321/D2865321(Mainframe)
	〃	5	〃	2	〃			5	TTSOCLE_LED-K	→	Transfer Unit Open/Close	Transfer Unit Open/Close LED:OUT	↓
	〃	6	〃	1	〃			6	+5V_IO	P	LED	+5V_IO	D2026237(Transfer Unit)
	〃	7	CN4	3	〃			7	GND	G	Fusing Entrance Sensor	GND	↓
	〃	8	〃	2	〃			8	FFUINSN_SNS	←		Fusing Entrance Sensor	end to: Electrical Components
	〃	9	〃	1	〃			9	+5V_IO	P		+5V_IO	
D2023172 (PCU)	CN16	1	CN1	6	Purple	D2895313 (Mainframe)	CN11	1	GND	G	TD Sensor	GND	from: BCU(CN118)
	〃	2	〃	5	〃			2	NTNODSN_VOUT	←		TD Sensor: Clock IN	↓
	〃	3	〃	4	〃			3	+3.3V_ID	P		<TD Sensor>3.3V<HST Sensor>5V	D2895313(Mainframe)
	〃	4	〃	3	〃			4	NTNODSN_VTCNT	→		<TD Sensor>TD Sensor: SEL <HST Sensor>HST Sensor: PWM	↓
	〃	5	〃	2	〃			5	NTNODSN_SDA	⇔		TD Sensor/HST Sensor: SDA	D2023172(PCU)
	〃	6	〃	1	〃			6	NTNODSN_SCL	→		TD Sensor/HST Sensor: SCL	↓ end to: TD Sensor

SP 8400DN Harness Pin Assignment (Laser-related Part)

Harness Informaion				From/To Information							
Part Numbe	Start	End	Color	From		Pin No.	Logical Single Name	I/O	To	Signal Name	Note
D2025230	CN2 – 1	CN1 – 5	Purple	IPU	CN2	1	24V	P	Polygon Mirror Motor	24V	
	〃 – 2	〃 – 4	〃			2	GND	G		GND	
	〃 – 3	〃 – 3	〃			3	PMON_N	→		Polygon Mirror Motor On Signal	
	〃 – 4	〃 – 2	〃			4	PMRDY_N	←		Polygon Mirror Motor Ready Signal	
	〃 – 5	〃 – 1	〃			5	PMCLK	→		Polygon Mirror Motor Clock	
D1995232	CN538 – 1			IPU	CN538	1			LDB		
	〃 – 2	CN401 – 10	Purple			2	GND	G		GND	
	〃 – 3	〃 – 9	〃			3	DETP_N	←		Sync Detection Signal	
	〃 – 4	〃 – 8	〃			4	SYDO	←		Serial Communication Read Data	
	〃 – 5	〃 – 7	〃			5	SYDI	→		Serial Communication Write Data	
	〃 – 6	〃 – 6	〃			6	SYCLK	→		Serial Communication Clock	
	〃 – 7	〃 – 5	〃			7	SYCS_N	→		Serial Communication Chip Selection	
	〃 – 8	〃 – 4	〃			8	DROPEN	←		Door Open Signal	
	〃 – 9	〃 – 3	〃			9	ERR_N	←		G-MAC Error Signal	
	〃 – 10	〃 – 2	〃			10	APC_N	→		APC Signal	
	〃 – 11	〃 – 1	〃			11	5VS	P		5VS	
	〃 – 12					12					
	CN540 – 1				CN540	1					
	〃 – 2					2					
	〃 – 3	CN402 – 2	Purple			3	LDD1_N	→		LD Light-up Data Signal (–)	
	〃 – 4	〃 – 1	White			4	LDD1	→		LD Light-up Data Signal (+)	
	CN2 – 1	CN536 – 5	Orange		CN2	1	PMCLK	→	Polygon Mirror Motor	Polygon Mirror Motor Clock	
	〃 2	〃 – 4	〃			2	PMRDY_N	←		Polygon Mirror Motor Ready Signal	
	〃 3	〃 – 3	〃			3	PMON_N	→		Polygon Mirror Motor ON Signal	
	〃 4	〃 – 2	〃			4	GND	G		GND	
	〃 5	〃 – 1	〃			5	24V	P		24V	
D2025232	CN538 – 1	CN401 12	Purple	IPU	CN538	1	GND	G	LDB	GND	
	〃 – 2	〃 – 11	〃			2	GND	G		GND	
	〃 – 3	〃 – 10	〃			3	DETP_N	←		Sync Detection Signal	
	〃 – 4	〃 – 9	〃			4	SYDO	←		Serial Communication Read Data	
	〃 – 5	〃 – 8	〃			5	SYDI	→		Serial Communication Write Data	
	〃 – 6	〃 – 7	〃			6	SYCLK	→		Serial Communication Clock	
	〃 – 7	〃 – 6	〃			7	SYCS_N	→		Serial Communication Chip Selection	
	〃 – 8	〃 – 5	〃			8	DROPEN	←		Door Open Signal	
	〃 – 9	〃 – 4	〃			9	ERR_N	←		G-MAC Error Signal	
	〃 – 10	〃 – 3	〃			10	APC_N	→		APC Signal	
	〃 – 11	〃 – 2	〃			11	5VS	P		5VS	
	〃 – 12	〃 – 1	〃			12	5VS	P		5VS	
	CN540 – 1	CN402 – 4	Purple		CN540	1	LDD2_N	→		LD Light-up Signal Beam 2(–)	
	〃 – 2	〃 – 3	White			2	LDD2	→		LD Light-up Signal Beam 2(+)	
	〃 – 3	〃 – 2	Purple			3	LDD1_N	→		LD Light-up Signal Beam 1(–)	
	〃 – 4	〃 – 1	White			4	LDD1	→		LD Light-up Signal Beam 1(+)	
	CN2 – 1	CN536 – 5	Orange		CN2	1	PMCLK	→	Polygon Mirror Motor	Polygon Mirror Motor Clock	
	〃 2	〃 – 4	〃			2	PMRDY_N	←		Polygon Mirror Motor Ready Signal	
	〃 3	〃 – 3	〃			3	PMON_N	→		Polygon Mirror Motor ON Signal	
	〃 4	〃 – 2	〃			4	GND	G		GND	
	〃 5	〃 – 1	〃			5	24V	P		24V	

SP 8400DN Harness Pin Assignment (Operation Panel)

Harness Information				From/To Information							
Part Numbe	Start	End	Color	From		Pin No.	Logical Signal Name	I/O	To	Signal Name	Note
D2891480	CN1 – 1	CN2 – 1	Black	IPU	CN533	1	VBUS	P	Multi-Link Panel (in house)	VBUS	
	〃 – 2	〃 – 2	〃			2	OPE_USB_M	I/O		OPE_USB_M	
	〃 – 3	〃 – 3	〃			3	OPE_USB_P	I/O		OPE_USB_P	
	〃 – 4	〃 – 4	〃			4	MUL_TRG_N	I/O		MUL_TRG_N	
	〃 – 5	〃 – 5	〃			5	GND	G		GND	
	〃 – 6	〃 – 6	〃			6	VBY_SUB_M	I/O		VBY_SUB_M	
	〃 – 7	〃 – 7	〃			7	VBY_SUB_P	I/O		VBY_SUB_P	
	〃 – 8	〃 – 8	〃			8	GND	G		GND	
	〃 – 9	〃 – 9	〃			9	VBY_TX_M	→		VBY_TX_M	
	〃 – 10	〃 – 10	〃			10	VBY_TX_P	→		VBY_TX_P	
D2951561	CN502 – 9	CN1 – 1	Purple	CTL	CN502	1	5VX	P	Panel Mounting Connector	5VX	
	〃 – 8	〃 – 2	〃			2	5VX	P		5VX	
	〃 – 7	〃 – 3	〃			3	5VX	P		5VX	
	〃 – 6	〃 – 4	〃			4	SC672ERR1	→		SC672ERR1	
	〃 – 5	〃 – 5	〃			5	SC672_DET	←		SC672_DET	
	〃 – 4	〃 – 6	〃			6	SC_EN_N	→		SC_EN_N	
	〃 – 3	〃 – 7	〃			7	GND	G		GND	
	〃 – 2	〃 – 8	〃			8	GND	G		GND	
	〃 – 1	〃 – 9	〃			9	GND	G		GND	
D2951562	CN2 – 9	CN1 – 1	Purple	Panel Mounting Connector	CN2	1	5VX	P	Relay Connector	5VX	
	〃 – 8	〃 – 2	〃			2	5VX	P		5VX	
	〃 – 7	〃 – 3	〃			3	5VX	P		5VX	
	〃 – 6	〃 – 4	〃			4	SC672ERR1	→		SC672ERR1	
	〃 – 5	〃 – 5	〃			5	SC672_DET	←		SC672_DET	
	〃 – 4	〃 – 6	〃			6	SC_EN_N	→		SC_EN_N	
	〃 – 3	〃 – 7	〃			7	GND	G		GND	
	〃 – 2	〃 – 8	〃			8	GND	G		GND	
	〃 – 1	〃 – 9	〃			9	GND	G		GND	
D2951563	CN2 – 9	CN1 – 1	Black	Relay Connector	CN2	1	5VX	P	Multi-Link Panel (in house)	5VX	
	〃 – 8	〃 – 2	〃			2	5VX	P		5VX	
	〃 – 7	〃 – 3	〃			3	5VX	P		5VX	
	〃 – 6	〃 – 4	〃			4	SC672ERR1	→		SC672ERR1	
	〃 – 5	〃 – 5	〃			5	SC672_DET	←		SC672_DET	
	〃 – 4	〃 – 6	〃			6	SC_EN_N	→		SC_EN_N	
	〃 – 3	〃 – 7	〃			7	GND	G		GND	
	〃 – 2	〃 – 8	〃			8	GND	G		GND	
	〃 – 1	〃 – 9	〃			9	GND	G		GND	

D3BA POINT TO POINT DIAGRAM

D3BA ELECTRICAL COMPONENT LAYOUT

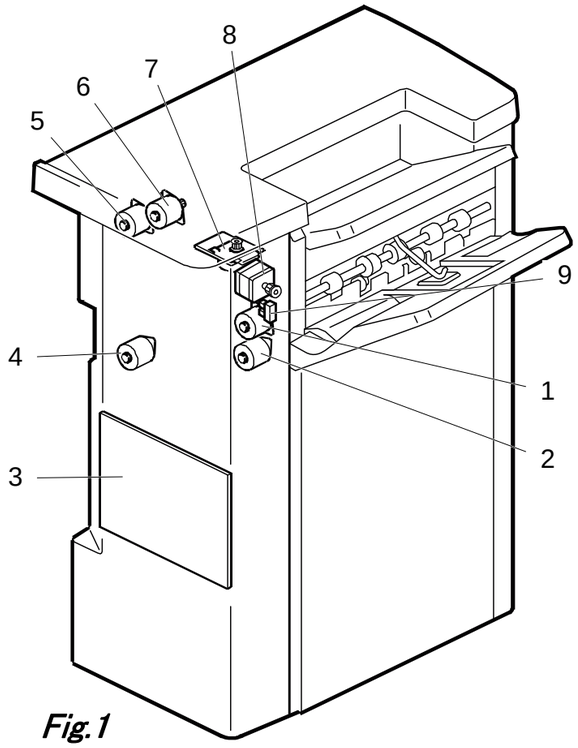


Fig.1

d223d8236

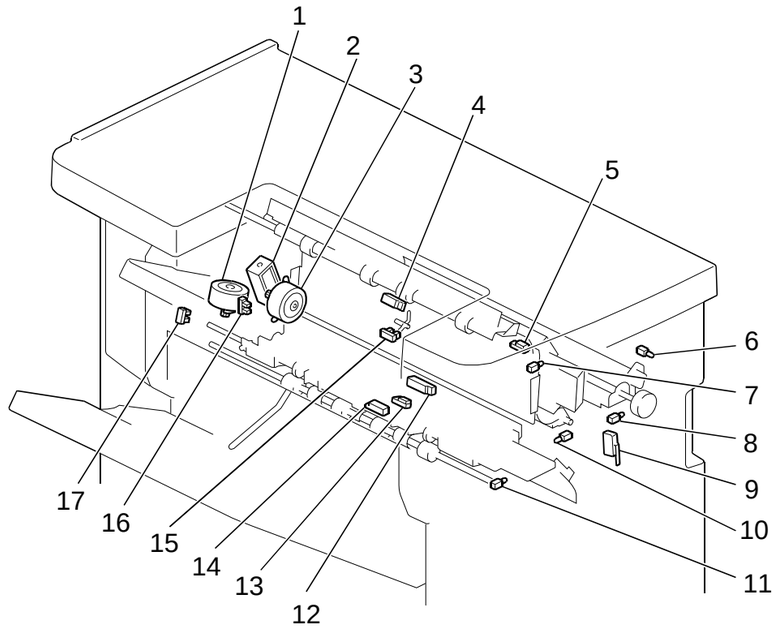


Fig.2

d7049901

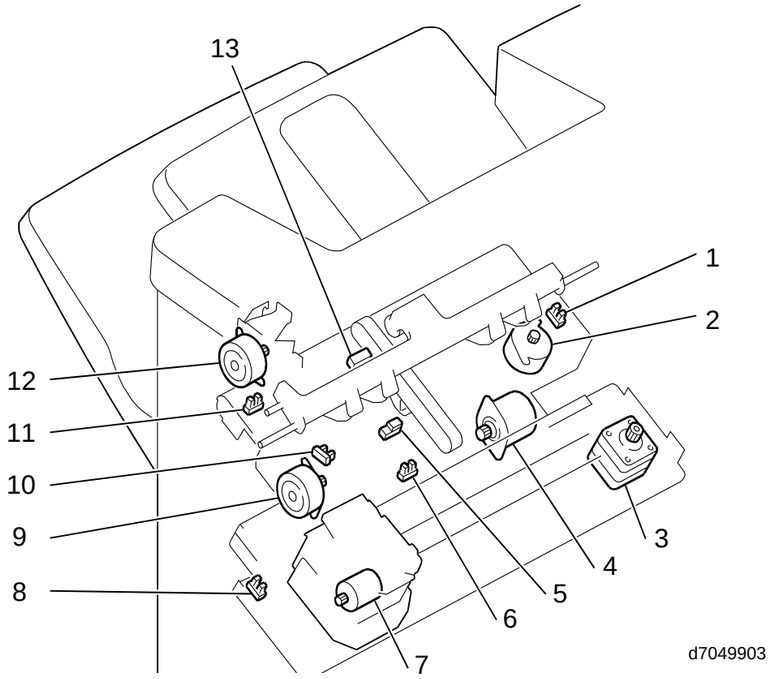


Fig.3

d7049903

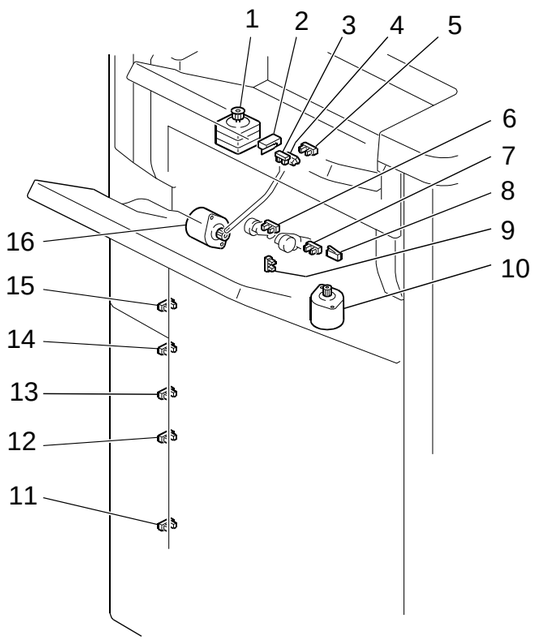


Fig.4

d7049904

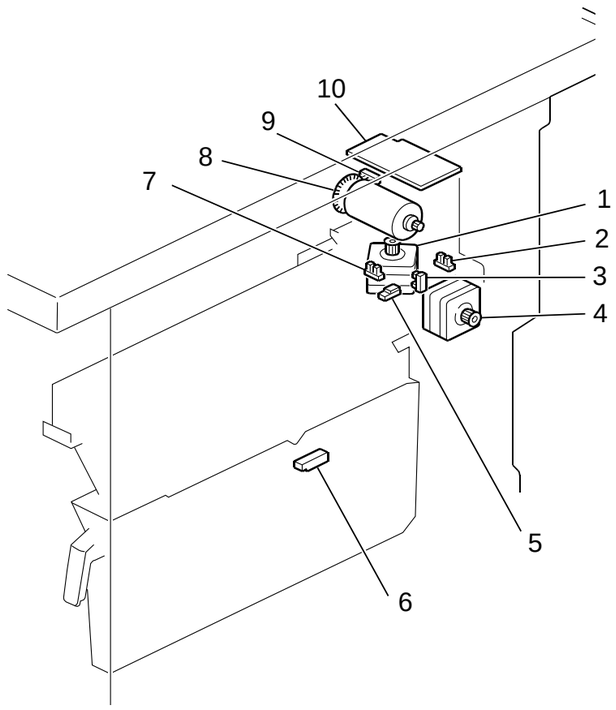


Fig.5

d7049907

Symbol	Index No.	Description	P to P
Sensors			
S1	–	Folding Blade HP Sensor	A1
S2	–	Booklet Paper Sensor(Upper)	A1
S3	–	Booklet Adjustment HP Senso	B1
S4	–	Booklet Guide Sensor	B1
S5	–	Booklet Bottom Fence HP Sensor	D1
S6	–	Bottom Paper Exit Sensor	D1
S7	–	Booklet Paper Full Sensor 1	D1
S8	–	Booklet Paper Full Sensor 2	E1
S9	–	Folding Blade Cam HP Sensor	C1
S10	–	Booklet Jogger HP Sensor	C1
S11	–	Booklet Paper Sensor (Lower)	B1
S12	Fig.3-6	Feed Out Guide HP Sensor	K1
S13	Fig.2-12	Horizonatal Transport Sensor	N1
S14	Fig.2-13	Switchback Transport Sensor	I1
S15	Fig.2-14	Paper Transport Sensor	H1
S16	Fig.4-15	Shift Tray Lower Limit Sensor 1	F1
S17	Fig.2-5	Entrance Sensor	E1
S18	Fig.2-16	Lower Junction Gate HP Sensor	H1
S19	Fig.2-17	Shift Roller HP Sensor	H1
S20	Fig.2-15	Proof Tray Exit Sensor	J1
S21	Fig.2-4	Proof Tray Full Sensor	I1
S22	Fig.3-13	Shift Tray Exit Sensor	J1
S23	Fig.3-8	Stapler Movement HP Sensor	L1
S24	Fig.4-6	Trailing Edge Pressure Plate HP Sensor	M1
S25	Fig.3-1	Jogger HP Sensor	L1
S26	Fig.4-3	Corner Stapling Paper Sensor 1	N1
S27	Fig.4-4	Corner Stapling Paper Sensor 2	N1
S28	Fig.3-11	Positioning Roller HP Sensor	O1
S29	Fig.4-12	Shift Tray Lower Limit Sensor 2	F1
S30	Fig.4-13	Shift Tray Lower Limit Sensor 3	F1
S31	Fig.3-5	Staple Tray Paper Sensor	J1
S32	Fig.4-9	Stacking Roller HP Sensor	L1
S33	Fig.3-10	Leading Edge Guide HP Sensor	K1
S34	Fig.4-5	Exit Guide Plate HP Sensor	O1
S35	Fig.4-7	Shift Tray Paper Sensor	M1
S36	Fig.4-12	Shift Tray Lower Limit Sensor 4	G1
S37	Fig.4-11	Shift Tray Lower Limit Sensor 5	G1
S38	Fig.5-7	Punch HP Sensor	F11
S39	Fig.5-9	Punch RPS Sensor	F12
S40	Fig.5-2	Punch Movement HP Sensor	H10
S41	Fig.5-3	Paper Position Side HP Sensor	I10
S42	Fig.5-6	Punch Hopper Full Sensor	E11
S43	Fig.5-5	Paper Position Side Sensor	E12
S44	Fig.1-9	Paper Guide HP Sensor	O1
S45	–	Shift Jogger Movement HP Sensor 1	J15
S46	–	Shift Jogger Movement HP Sensor 2	J15
S47	–	Shift Jogger Front HP Sensor	K15
S48	–	Shift Jogger Back HP Sensor	K15

Symbol	Index No.	Description	P to P
Motors			
STM1	Fig.3-2	Jogger Motor	G14
STM2	Fig.2-3	Lower Junction Gate Motor	H14
STM3	Fig.2-1	Shift Motor	F14
STM4	Fig.4-1	Paper Exit Gate Motor	G14
STM5	Fig.3-12	Positioning Roller Motor	H14
STM6	Fig.3-9	Leading Edge Guide Motor	G14
STM7	Fig.3-3	Stapler Movement Motor	F14
STM8	–	Booklet Guide Motor	C21
STM9	–	Folding Transport Motor	C21
STM10	–	Press Folding Motor	B21
STM11	–	Booklet Jogger Motor	D21
STM12	–	Booklet Fence Motor	D21
STM13	Fig.5-8	Punch Drive Motor	G12
STM14	Fig.5-4	Paper Position Sensor Side Motor	H12
STM15	–	Shift Jogger Front Motor	L14
STM16	–	Shift Jogger Back Motor	L14
STM17	–	Shift Jogger Movement Motor	K15
STM18	Fig.1-8	Paper Guide Motor	H20
DCM1	Fig.1-5	Entrance Transport Motor	F22
DCM2	Fig.1-6	Horizontal Transport Motor	F22
DCM3	Fig.1-2	Middle Transport Motor	A14
DCM4	Fig.1-1	Tray Exit Motor	B14
DCM5	Fig.1-4	Pre Stack Transport Motor	E22
DCM6	Fig.4-10	Stacking Roller Motor	C14
DCM7	Fig.3-4	Feed Out Motor	B14
DCM8	Fig.4-16	Trailing Edge Pressure Plate Motor	D14
DCM9	Fig.1-7	Tray Shift Motor	D14
DCM10	Fig.3-7	Stapler	G21
DCM11	–	Movement Roller Transport Motor	A22
DCM12	–	Booklet Stapler Motor	B23
DCM13	Fig.5-1	Punch Drive Motor	G9
DCM14	Fig.3-12	Positioning Roller Motor	I20
Switches			
SW1	Fig.2-9	Front Door Switch	N21
SW2	Fig.4-2	Paper Exit Guide Limit Switch	N21
SW3	Fig.4-8	Tray Upper Limit Switch	O21
LEDs			
LED1	Fig.2-7	LED1	J23
LED2	Fig.2-11	LED2	J23
LED3	Fig.2-10	LED3	J23
LED4	Fig.2-8	LED4	K23
LED5	Fig.2-6	LED5	K20
LED6	–	Booklet Unit LED1	K23
LED7	–	Booklet Unit LED2	L23
LED8	–	Booklet Unit LED3	L23
LED9	–	Booklet Unit LED4	M23
LED10	–	Booklet Unit LED5	M23
LED11	–	Booklet Unit LED6	M23
Solenoids			
SOL1	Fig.2-2	Upper Junction Gate Solenoid	E14
FAN			
FAN1	–	Paper Exit Fan	N17
PCBs			
PCB1	Fig.1-3	Main Control Board	–
PCB2	Fig.5-10	Punch Unit Control Board	–

D3B8 POINT TO POINT DIAGRAM

Main Control Board (D3B85200)

Punch Unit

PCB: Punch Control (D6885121)

PUNCH (D6885511)

FAN Motor I/F

VODKA DEBUG I/F

CPU DEBUG I/F

Switching I/F

SPI I/F

D3B8 ELECTRICAL COMPONENT LAYOUT(1/2)

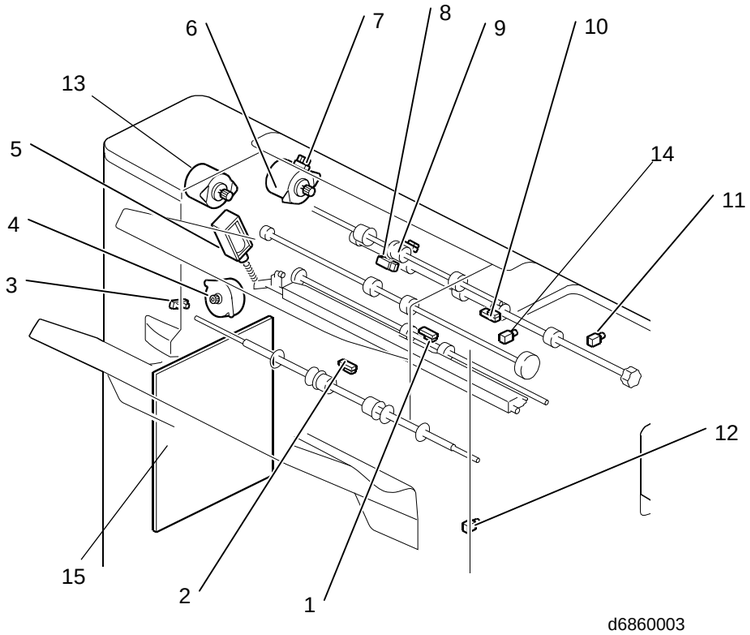


Fig.1

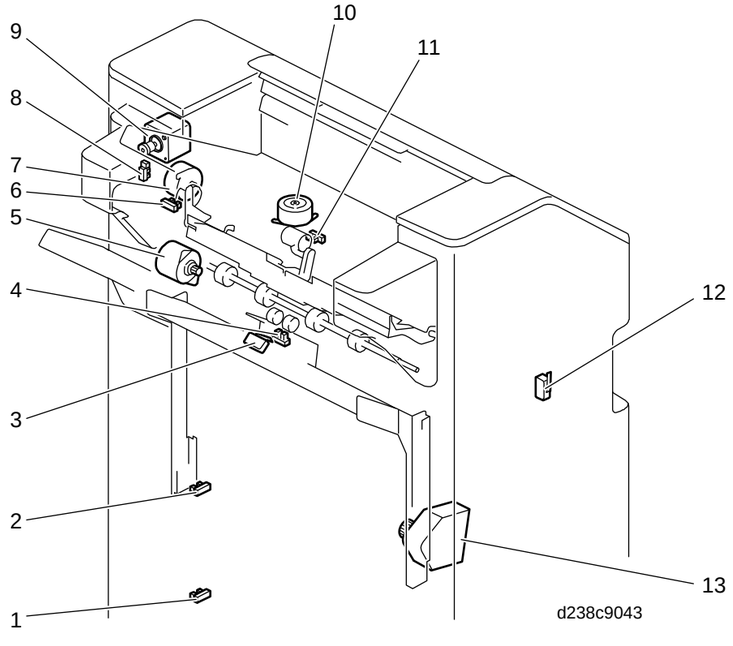


Fig.2

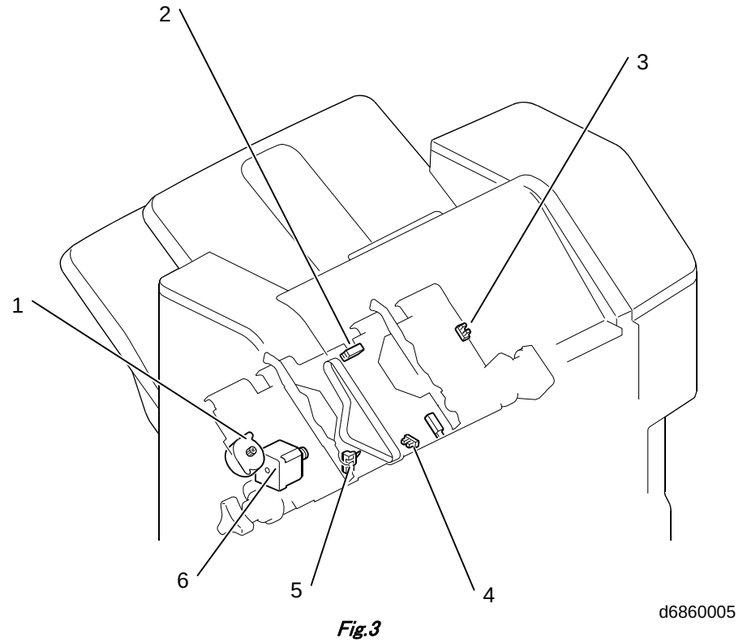


Fig.3

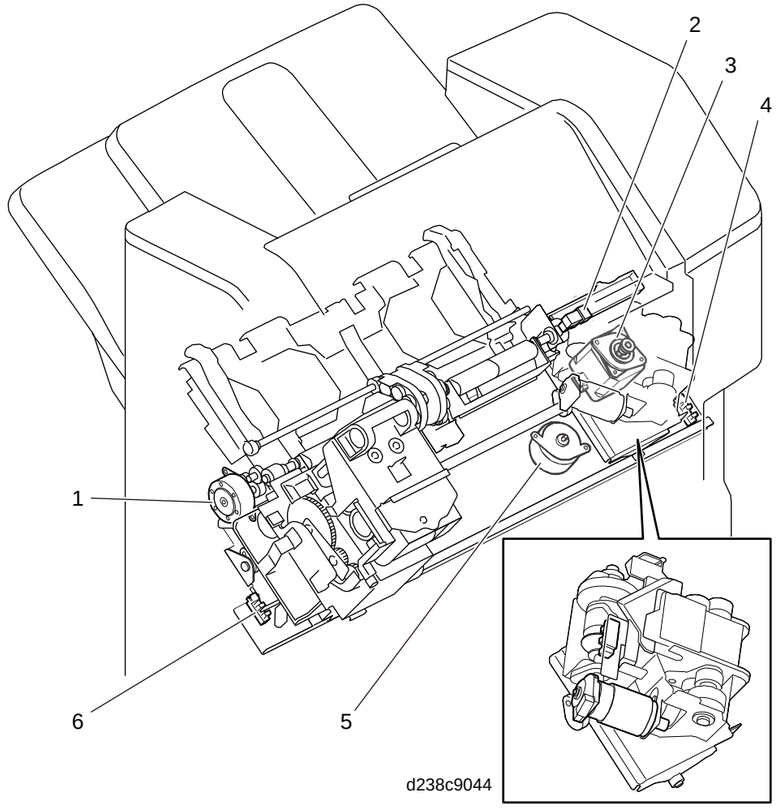


Fig.4

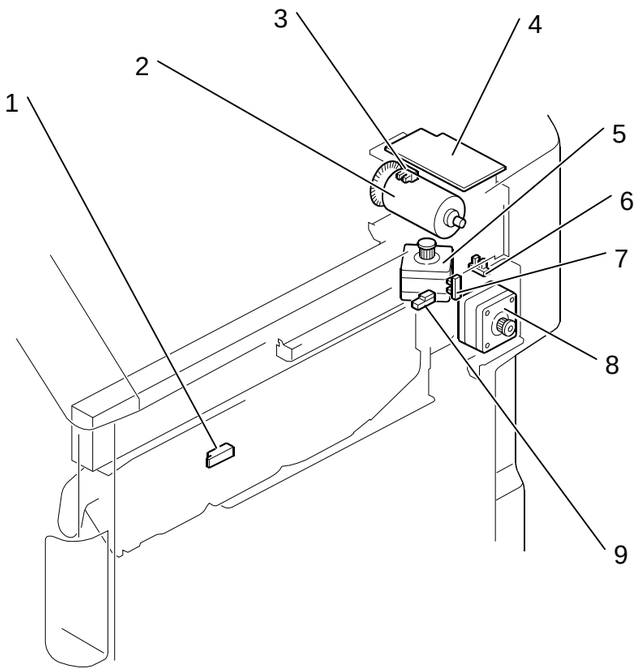
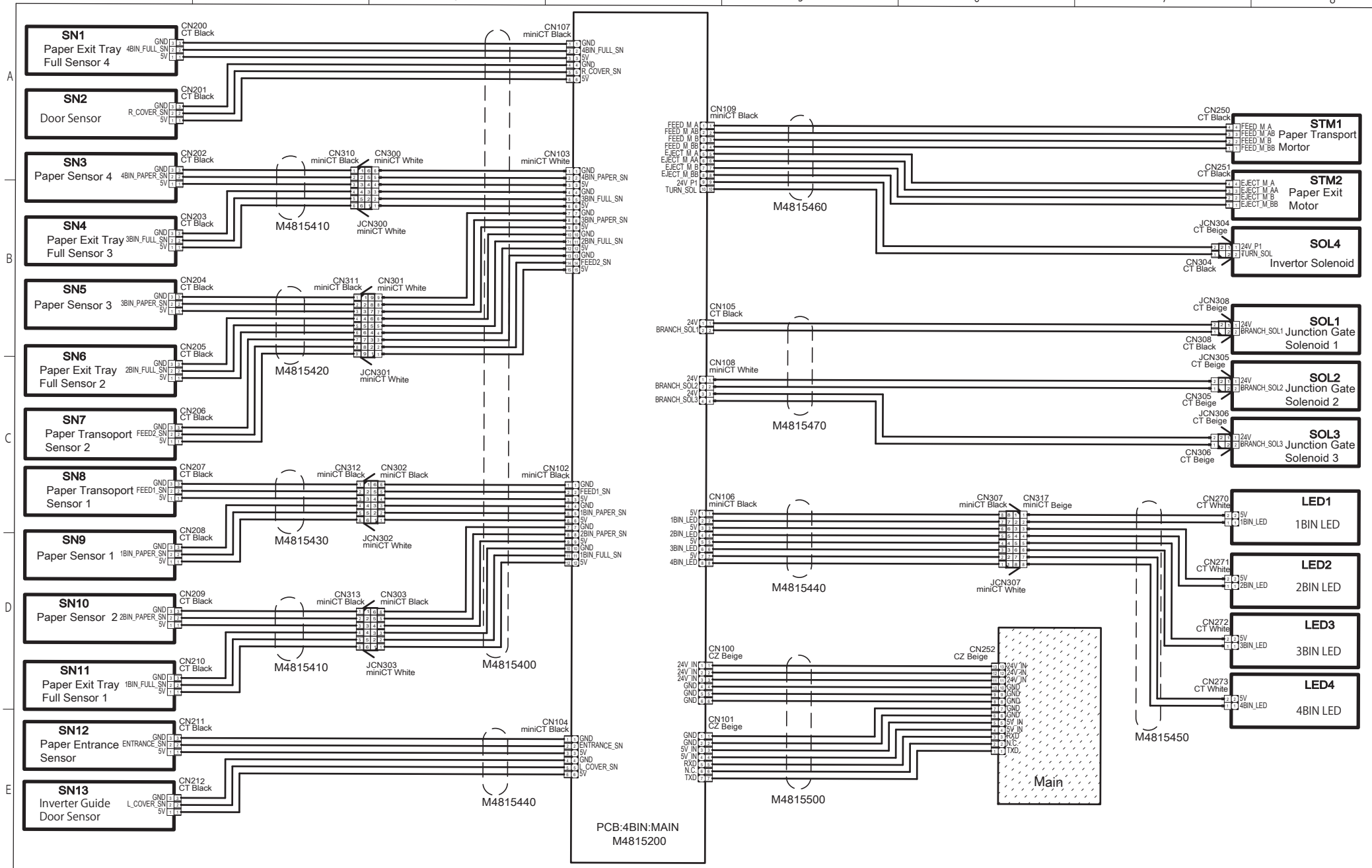


Fig.5 d6860008

D3B8 ELECTRICAL COMPONENT LAYOUT(2/2)

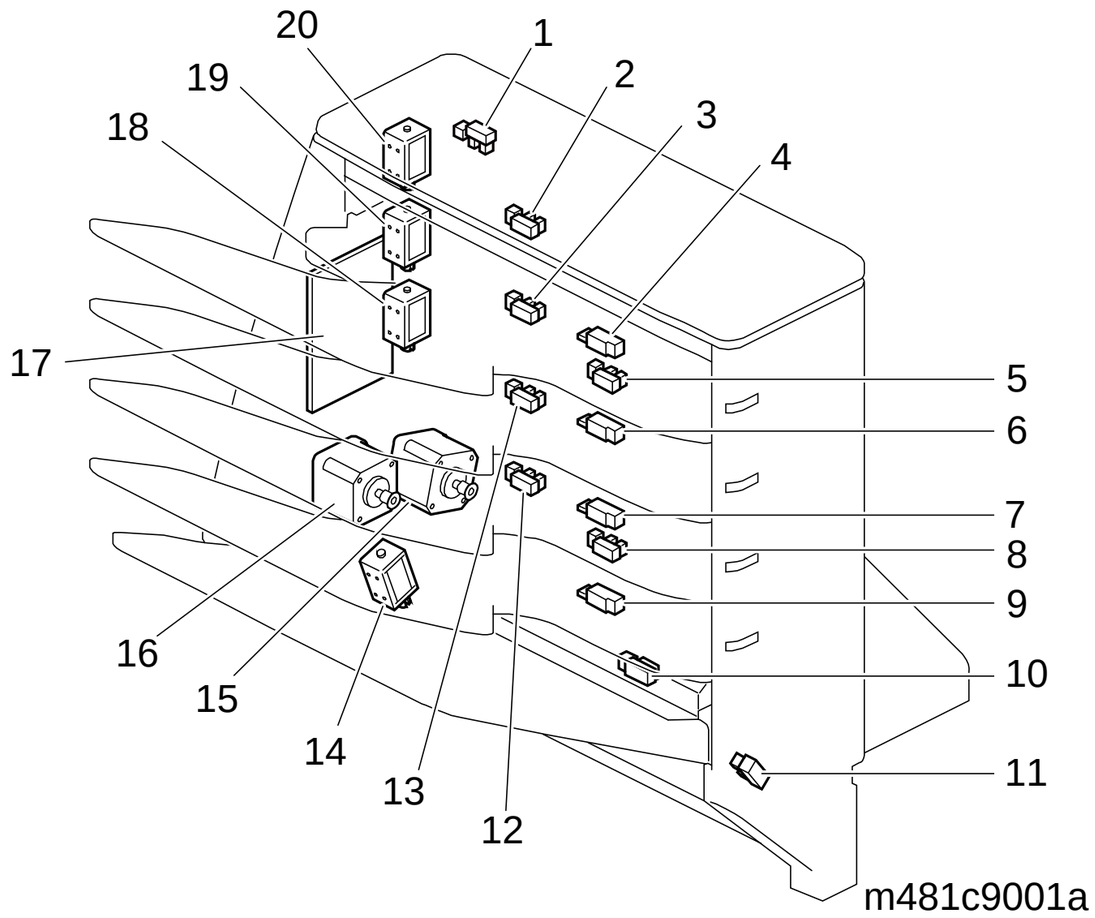
Symbol	Index No.	Description	P to P
Sensors			
S1	Fig2-1	Shift Tray Lower Limit Sensor (Upper)	J1
S2	-	Stapler Transfer HP Sensor (Edge)	I13
S3	Fig.4-2	Paper Guide HP Sensor	N1
S5	Fig.4-6	Stapler HP Sensor	N1
S6	Fig.4-4	Stapeless Stapler HP Sensor	M1
S9	Fig.3-4	Staple Tray Paper Detection Sensor	K1
S10	Fig.3-5	Release Claw HP Sensor	J1
S11	Fig.3-3	Jogger HP Sensor	J1
S12	Fig2-2	Shift Tray Lower Limit Sensor (Lower)	I1
S13	Fig2-4	Shift Tray Paper Surface Sensor	I1
S14	Fig2-6	Positioning Roller HP Sensor	H1
S15	Fig.3-2	Shift Tray Paper Eject Sensor	K1
S16	Fig.1-7	Upper Cover Open/Close Sensor	G1
S17	Fig.1-3	Shift HP Sensor	G1
S18	Fig.1-10	Entrance Sensor	H1
S19	Fig.1-1	IntermediateTransport Sensor R	F23
S20	Fig.1-2	Intermediate Transport Sensor L	E1
S21	Fig.1-8	Proof Tray Full Sensor	E1
S22	Fig.1-9	Proof Tray Paper Eject Sensor	D1
S23	Fig2-11	Paper Guide PlateOpen/Close HP Sensor	F23
S29	Fig5-9	Paper PositionSensor	C14
S30	Fig5-6	Punch MovementHP Sensor	F13
S31	Fig5-7	Paper PositionSide HP Sensor	G13
S32	Fig.5-1	Punch Hopper Full Sensor	B14
S33	Fig.5-3	Punch HP Sensor	D14
S34	-	Punch Rotation Pulse Sensor	D14
S35	Fig2-8	Paper Guide HP Sensor	B13

Symbol	Index No.	Description	P to P
Motors			
STM1	Fig.1-4	Shift Motor	D23
STM2	Fig2-10	Paper Guide Plate Open/Close Motor	E23
STM3	Fig.3-1	Jogger Motor	H23
STM4	Fig.3-6	Release Claw Motor	G23
STM5	Fig2-7	PositioningRoller Motor	E23
STM6	-	Stapler(590)Motor	K23
STM14	Fig5-5	Punch Movement Motor	E14
STM15	Fig5-8	Paper PositionSensor Slide Motor	G14
STM16	Fig2-9	Paper Exit Guide Drive Motor	F23
STM17	Fig.4-3	Stapler (Stapeless) Motor	L23
STM18	Fig.4-1	Paper Guide Drive Motor	L23
DCM1	Fig.1-6	Entrance Transport Motor	A23
DCM2	Fig.1-13	Proof Transport Motor	C23
DCM3	Fig2-5	Paper Eject Transport Motor	B23
DCM4	Fig2-13	Tray Lift Motor	F23
DCM5	Fig.4-5	Stapler Motor	H14
DCM8	Fig.5-2	Punch Motor	E12
DCM9	-	Stapeless: Booklet	N11
Switches			
SW1	Fig2-12	Open.Close Door Switch	C1
SW2	Fig2-3	Shift Tray Upper Limit Switch	D1
LEDs			
LED1	Fig.1-12	Staple Tray JAM LED	A13
LED2	Fig.1-14	Intermediate Transport JAM LED	A13
LED3	Fig.1-11	Entrance Transport JAM LED	A13
Solenoids			
SOL1	Fig.1-5	Junction Solenoid	D23
Others			
PCB1	Fig.1-15	Main Control Board	P11
PCB2	Fig.5-4	PCB: Punch	G10



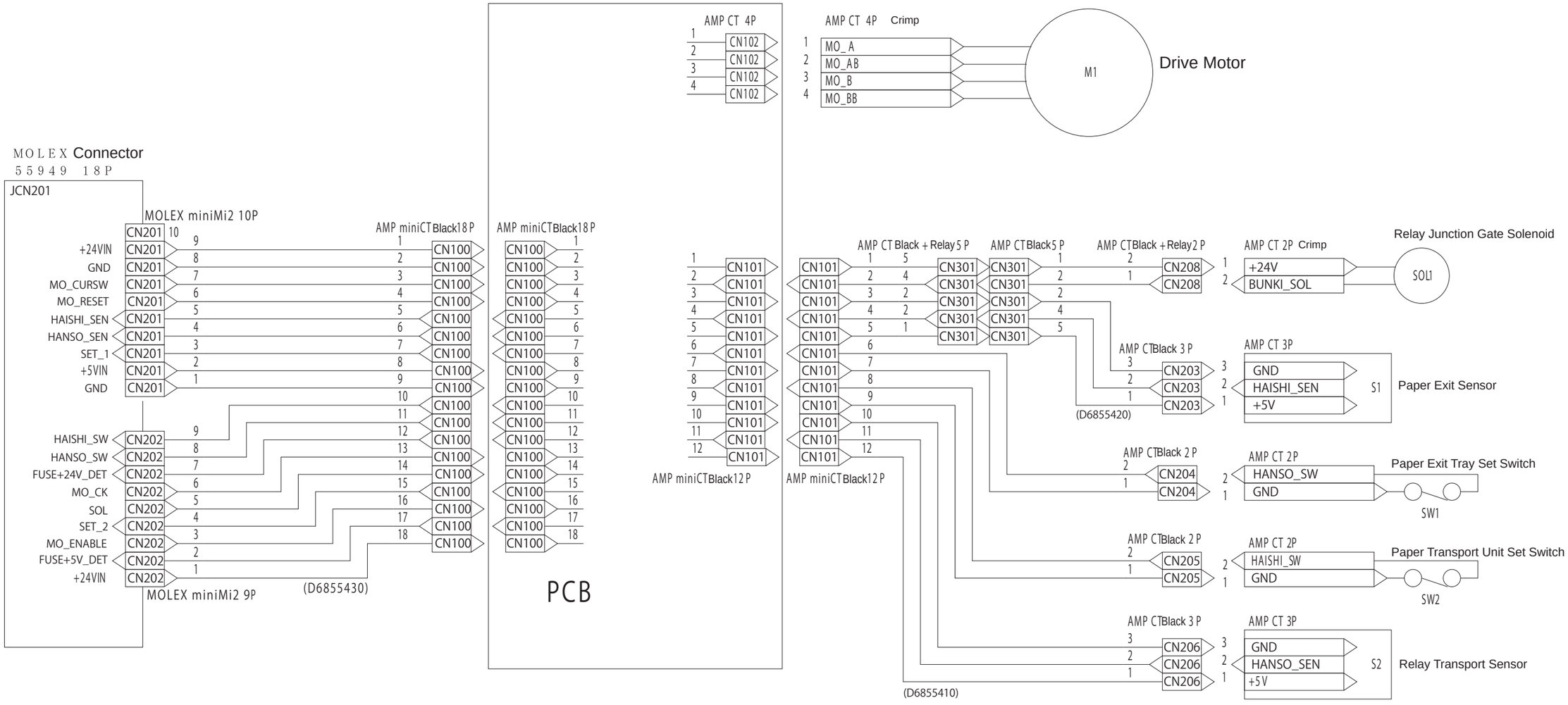
M481 POINT TO POINT DIAGRAM

M481 ELECTRICAL COMPONENT LAYOUT

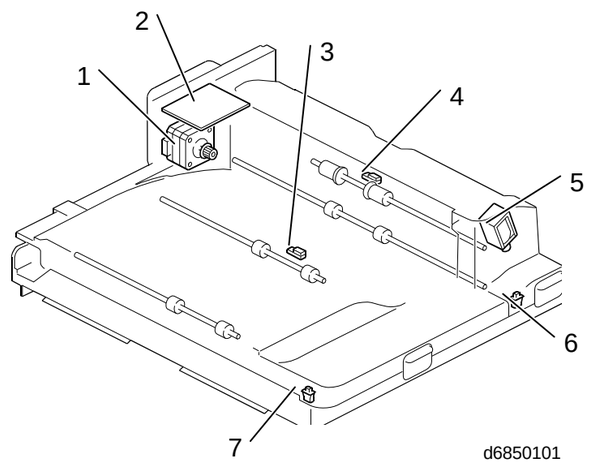


Motors			
Symbol	Index No.	Description	PtoP
STM1	15	Paper Transport Mortor	A8
STM2	16	Paper Exit Motor	B8
Sensors			
Symbol	Index No.	Description	PtoP
SN1	2	Paper Exit Tray Full Sensor 4	A1
SN2	1	Door Sensor	A1
SN3	4	Paper Sensor 4	A1
SN4	3	Paper Exit Tray Full Sensor 3	B1
SN5	6	Paper Sensor 3	B1
SN6	13	Paper Exit Tray Full Sensor 2	C1
SN7	5	Paper Transoport Sensor 2	C1
SN8	8	Paper Transoport Sensor 1	C1
SN9	9	Paper Sensor 1	D1
SN10	7	Paper Sensor 2	D1
SN11	12	Paper Exit Tray Full Sensor 1	D1
SN12	10	Paper Entrance Sensor	E1
SN13	11	Inverter Guide Door Sensor	E1
Solenoids			
Symbol	Index No.	Description	PtoP
SOL1	18	Junction Gate Solenoid 1	B8
SOL2	19	Junction Gate Solenoid 2	C8
SOL3	20	Junction Gate Solenoid 3	C8
SOL4	14	Invertor Solenoid	B8
LED			
Symbol	Index No.	Description	PtoP
LED1	-	1BIN LED	C8
LED2	-	2BIN LED	D8
LED3	-	3BIN LED	D8
LED4	-	4BIN LED	D8
PCB			
Symbol	Index No.	Description	PtoP
PCB1	17	Controller Board	E4

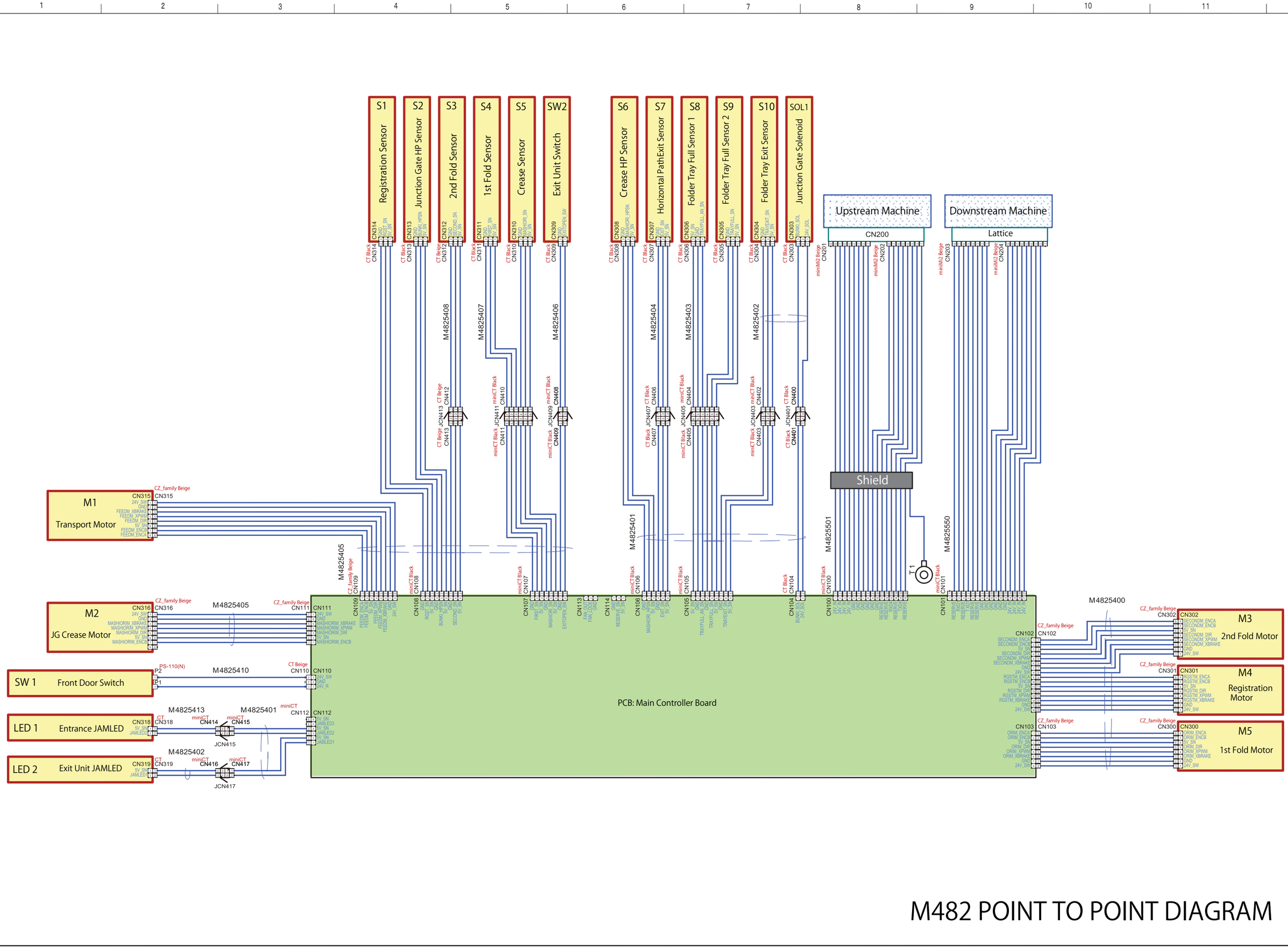
D685 POINT TO POINT DIAGRAM



D685 ELECTRICAL COMPONENT LAYOUT

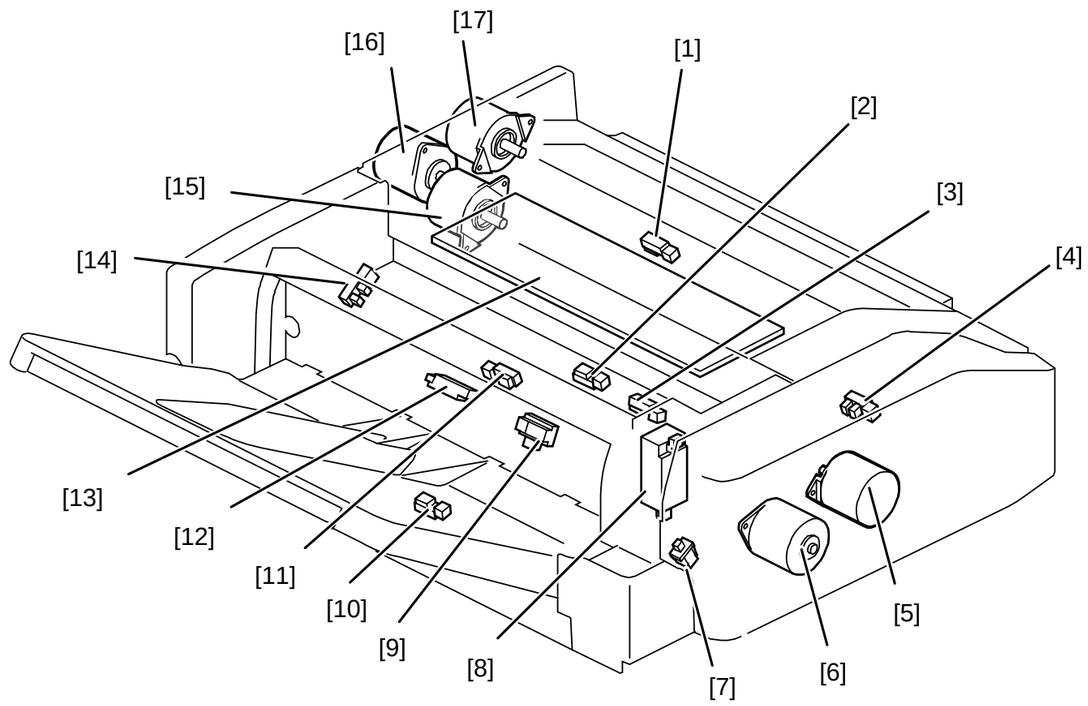


Motors			
Symbol	Index No.	Description	PtoP
M1	1	Drive Motor	B6
Sensors			
Symbol	Index No.	Description	PtoP
S1	4	Paper Exit Sensor	C7
S2	3	Relay Transport Sensor	E7
Solenoids			
Symbol	Index No.	Description	PtoP
SOL1	5	Relay Junction Gate Solenoid	C7
Switches			
Symbol	Index No.	Description	PtoP
SW1	7	Paper Exit Tray Set Switch	D7
SW2	6	Paper Transport Unit Set Switch	D7
PCB			
Symbol	Index No.	Description	PtoP
PCB1	2	Controller Board	E4



M482 POINT TO POINT DIAGRAM

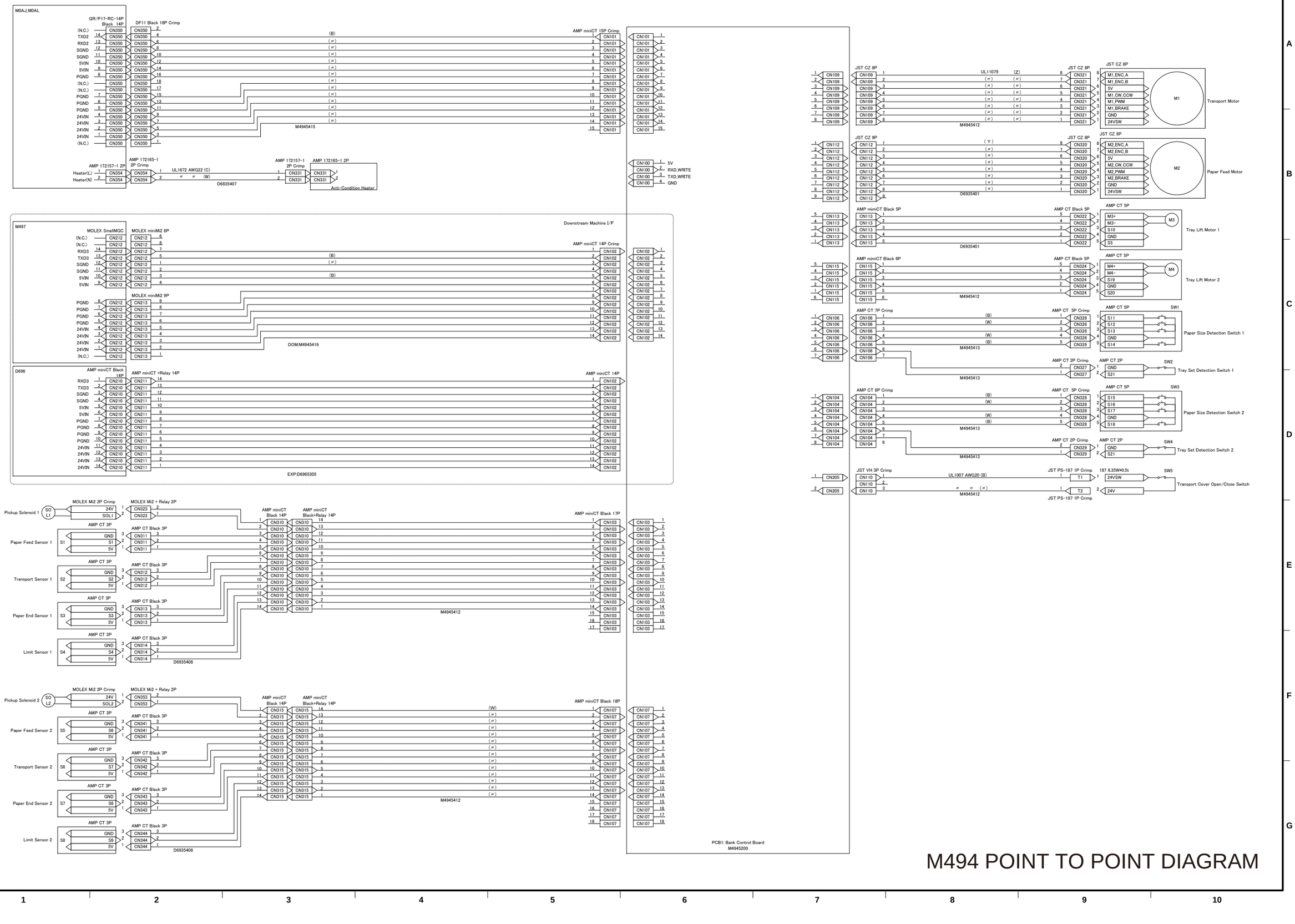
M482 ELECTRICAL COMPONENT LAYOUT



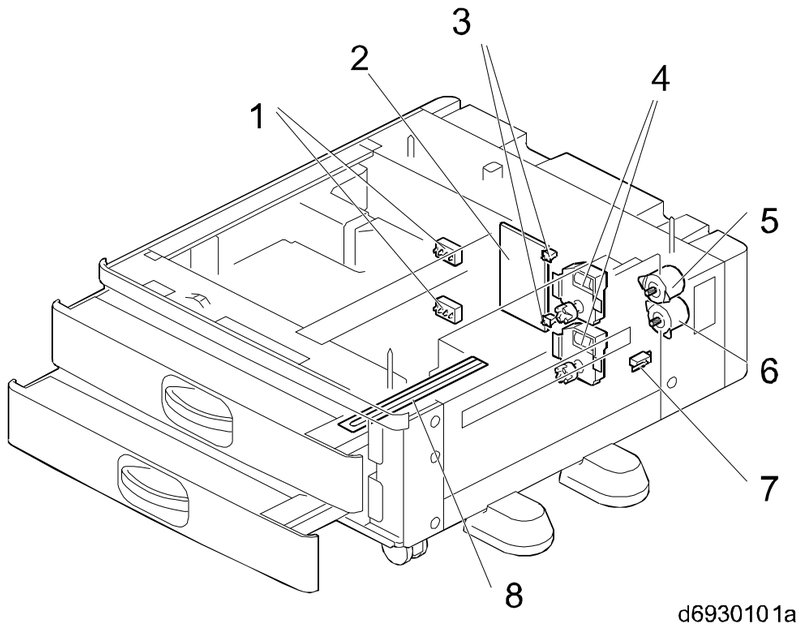
m482c9004

Symbol	Index No.	Description	P to P
Sensors			
S1	1	Registration Sensor	B4
S2	4	Junction Gate HP Sensor	B4
S3	-	2nd Fold Sensor	B5
S4	2	1st Fold Sensor	B5
S5	3	Crease Sensor	B5
S6	14	Crease HP Sensor	B6
S7	10	Horizontal PathExit Sensor	B6
S8	12	Folder Tray Full Sensor 1	B7
S9	9	Folder Tray Full Sensor 2	B7
S10	11	Folder Tray Exit Sensor	B7
Motors			
M1	6	Transport Motor	E1
M2	5	JG Crease Motor	F1
M3	15	2nd Fold Motor	F11
M4	17	Registration Motor	F11
M5	16	1st Fold Motor	G11
Switches			
SW1	-	Front Door Switch	F1
SW2	7	Exit Unit Switch	B5
Solenoid			
SOL1	8	Junction Gate Solenoid	B7
LED			
LED1	-	Entrance JAMLED	G1
LED2	-	Exit Unit JAMLED	G1
PCB			
PCB1	13	Main Controller Board	F6

M494 POINT TO POINT DIAGRAM



M494 ELECTRICAL COMPONENT LAYOUT



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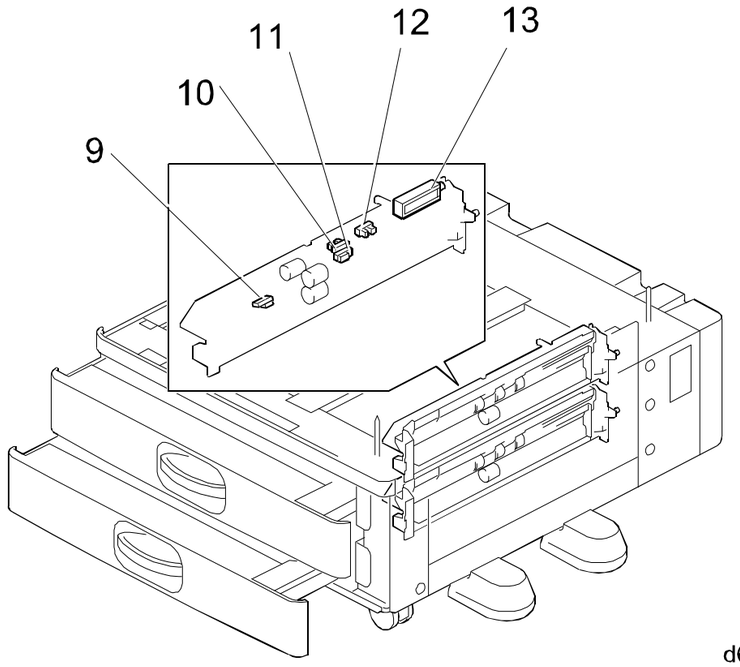

d6930102

Motors			
Symbol	Index No.	Description	PtoP
M1	6	Transport Motor	A10
M2	5	Paper Feed Motor	B10
M3	4	Tray Lift Motor 1	B10
M4	4	Tray Lift Motor 2	C10
Sensors			
Symbol	Index No.	Description	PtoP
S1	9	Paper Feed Sensor 1	E1
S2	11	Transport Sensor 1	E1
S3	10	Paper End Sensor 1	E1
S4	12	Limit Sensor 1	F1
S5	9	Paper Feed Sensor 2	F1
S6	11	Transport Sensor 2	G1
S7	10	Paper End Sensor 2	G1
S8	12	Limit Sensor 2	G1
Solenoids			
Symbol	Index No.	Description	PtoP
SOL1	13	Pickup Solenoid 1	E1
SOL2	13	Pickup Solenoid 2	F1
Switches			
Symbol	Index No.	Description	PtoP
SW1	1	Paper Size Detection Switch 1	C10
SW2	3	Tray Set Detection Switch 1	C10
SW3	1	Paper Size Detection Switch 2	D10
SW4	3	Tray Set Detection Switch 2	D10
SW5	7	Transport Cover Open/Close Switch	D10
PCB			
Symbol	Index No.	Description	PtoP
PCB1	2	Bank Control Board	G6
Others			
Symbol	Index No.	Description	PtoP
HTR	8	Anti-Condensation Heater	B3

MOAJ_MOAL

DF11-18DS-2C/Black

NC 8 NC 7 RXD 6 TXD 5 SGND 4 SGND 3 +5V 2 +5V 1 PGND 7 PGND 6 PGND 5 +24V 4 +24V 3 +24V 2 +24V 1

CN / JON210 (Drawer Connector : QR/P17-RC-14S) / CN212 / JON200 (Drawer Connector : QR/P17-RC-14P)

M4965300

UL1061 AWG#26 Brown / UL1061 AWG#26 White

miniCT/White/15P → miniCT/Black → CN119

1 TXD2 / 2 RXD2 / 3 SGND / 4 SGND / 5 +5V / 6 +5V / 7 PGND / 8 PGND / 9 PGND / 10 PGND / 11 +24V / 12 +24V / 13 +24V / 14 +24V / 15 NC

LINE 1 / NEUTRAL 2 — CN — CN1 — D6955390 — Red / UL1672 AWG#22 / Beige — CN2 — Beige — H1 — Anti-condensation Heater

PCB1: Controller Board

M4965100

miniCT/Black → CN109

1 M1_ENC_A / 2 M1_ENC_B / 3 +5V / 4 M1_CW_CCW / 5 M1_PWM / 6 M1_BRAKE / 7 GND / 8 +24VSW

miniCT/Black/8P — D6955340 — UL10272 AWG#26 Yellow — JST CZ/Beige — CN250 — M1 — Paper Transport Motor

miniCT/Black → CN112

1 M2_ENC_A / 2 M2_ENC_B / 3 +5V / 4 M2_CW_CCW / 5 M2_PWM / 6 M2_BRAKE / 7 GND / 8 +24VSW / 9 NC

miniCT/Black/9P — D6955350 — UL10272 AWG#26 Yellow — JST CZ/Beige — CN260 — M2 — Paper Feed Motor

JST 3.96mmPitch/Beige (Crimp) — VH/Beige/3P — CN205

1 +24VSW / 2 NC / 3 +24V

D6955380 — UL1007 AWG#22 Black — PS/Beige (Crimp) — T1 — COM 1 N.O 3 — SW2 — Paper Transport Cover Open /Closed Switch

miniCT/Black → CN107

1 NC / 2 NC / 3 GND / 4 End Fence Open Detection R / 5 +5V / 6 GND / 7 Paper End Sensor L / 8 +5V / 9 GND / 10 HP Detection / 11 +5V / 12 GND / 13 Tray Set Detection Sensor L / 14 NC / 15 NC / 16 NC / 17 NC / 18 NC

miniCT/Black/18P — D6955330 — UL10272 AWG#26 Parple

- CN140 — CT/Black — S7 — End Fence Open/Close Sensor
- CN141 — CT/Black — S8 — Left Tray Paper Sensor
- CN142 — CT/Black — S9 — Transfer Home Position Sensor
- CN143 — Left Tray Set Switch — CT/Black — SW3

miniCT/Black → CN102

1 RXD3 / 2 TXD3 / 3 SGND / 4 SGND / 5 +5V / 6 +5V / 7 PGND / 8 PGND / 9 PGND / 10 PGND / 11 +24V / 12 +24V / 13 +24V / 14 +24V

Paper Feed Unit

- Pickup Solenoid — SOL1 — JON120 — CN120 — CT/Black
- Paper Feed Sensor — S1 — CN121 — CT/Black
- Transport Sensor — S2 — CN122 — CT/Black
- Paper End Sensor — S3 — CN123 — CT/Black
- Upper Limit Sensor — S4 — CN124 — CT/Black

D6955315 — UL10272 AWG#26 Parple — miniCT/Black/14P → CN231 / JCN230 / CN230 → miniCT/Black/14P — D6955310 — UL10272 AWG#26 Parple — miniCT/Black/17P

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miniCT/Black → CN103

1 +24V / 2 Pickup Solenoid / 3 GND / 4 Feed Sensor / 5 +5V / 6 GND / 7 Vertical Transport Sensor / 8 +5V / 9 GND / 10 Paper End Sensor / 11 +5V / 12 GND / 13 Upper Limit Sensor / 14 +5V / 15 NC / 16 NC / 17 NC

- Remaining Paper Sensor — S5 — CN130 — CT/Black
- Lower Limit Sensor — S6 — CN131 — CT/Black
- Right Tray Set Switch — CN132 — SW1 — CT/Black

D6955320 — UL10272 AWG#26 Parple — miniCT/Black/12P → miniCT/Black → CN105

1 GND / 2 Remaining Paper Sensor / 3 +5V / 4 GND / 5 Lower Limit Sensor / 6 +5V / 7 GND / 8 Tray Set Detection Sensor / 9 NC / 10 NC / 11 NC / 12 NC

miniCT/Black/5P — CN113

1 NC / 2 NC / 3 NC / 4 Transfer Motor M − / 5 Transfer Motor M +

D6955370 — UL10272 AWG#26 Parple — CT/Black — CN270 — M3 — Paper Transfer Motor

miniCT/Black/6P — CN115

1 NC / 2 NC / 3 NC / 4 Lift Motor M − / 5 Lift Motor M + / 6 NC

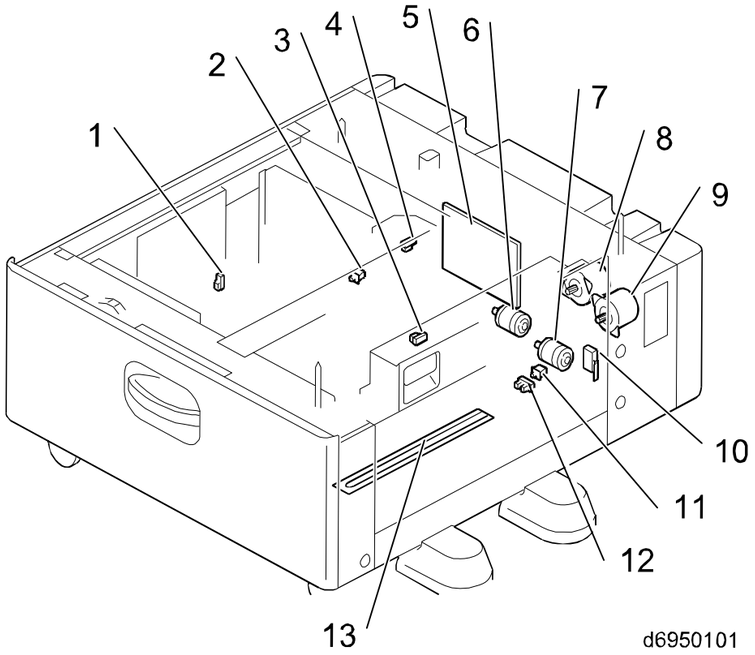
D6955360 — UL10272 AWG#26 Parple — CT/Black — CN280 — M4 — Paper Lift Motor

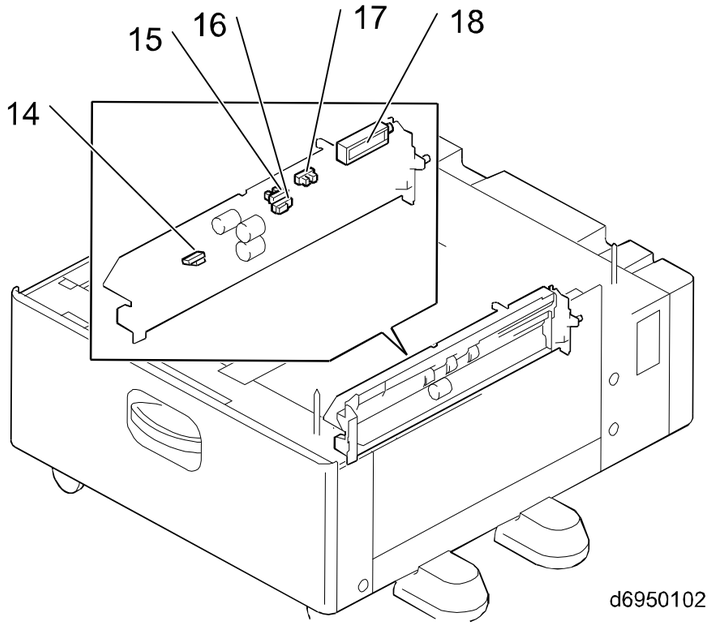
CT — CN100

1 +5V / 2 RXD_WRITE / 3 TXD_WRITE / 4 GND

M496 POINT TO POINT DIAGRAM

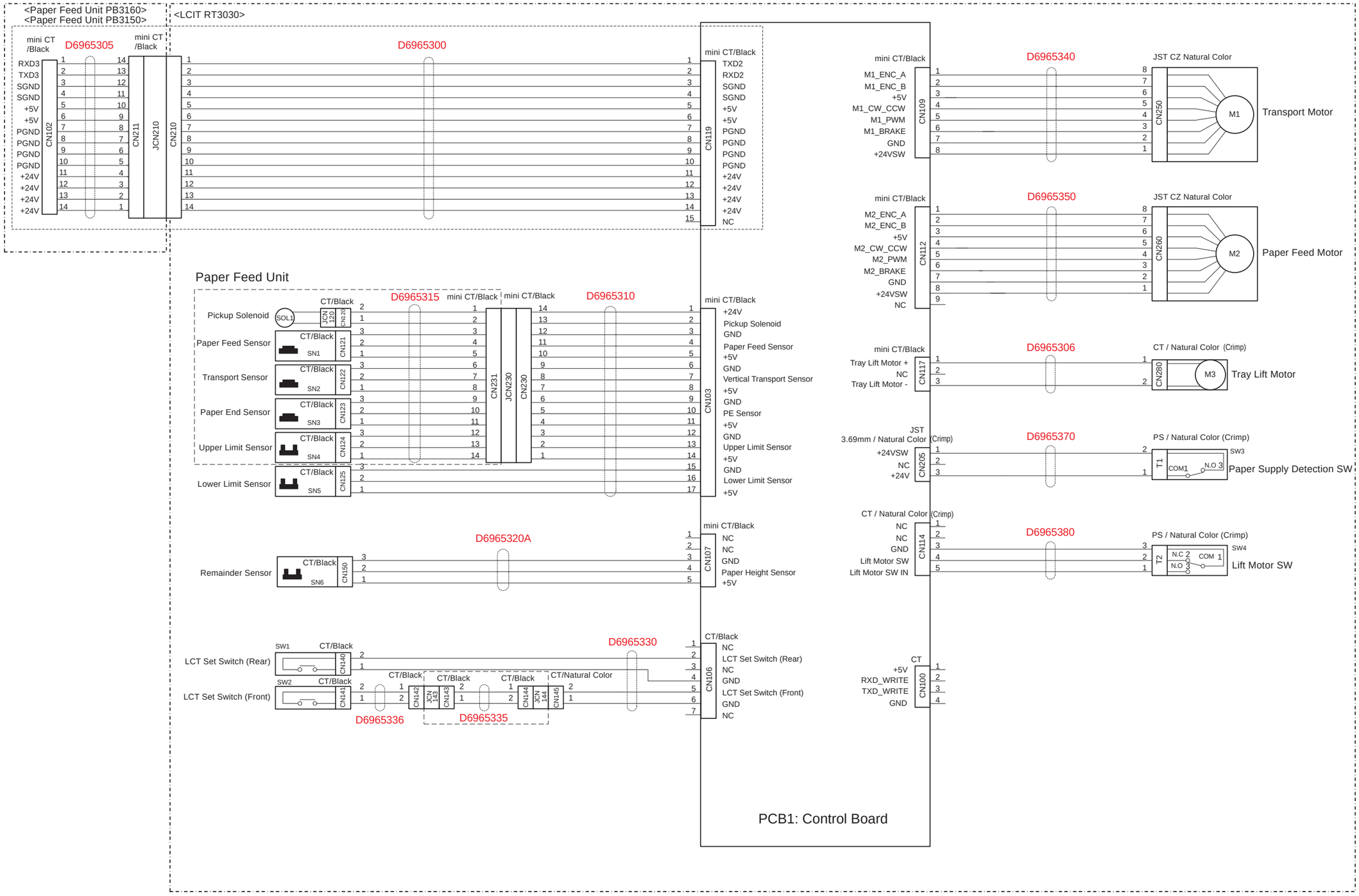
M496 ELECTRICAL COMPONENT LAYOUT



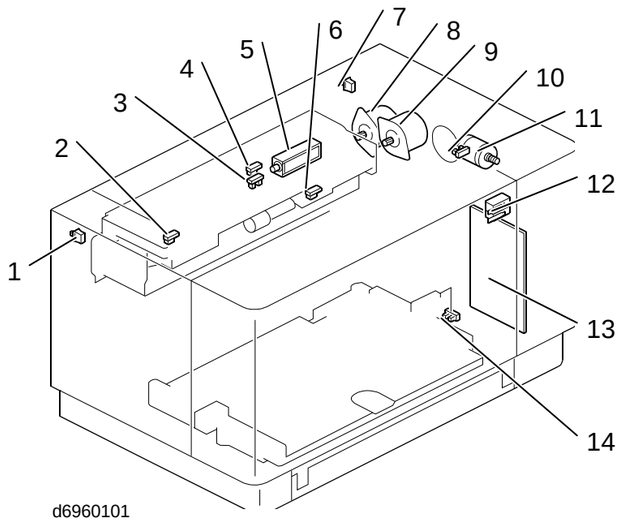


Motors			
Symbol	Index No.	Description	PtoP
M1	9	Transport Motor	A9
M2	8	Paper Feed Motor	B9
M3	6	Transfer Motor	E9
M4	7	Lift Motor	F9
Sensors			
Symbol	Index No.	Description	PtoP
SN1	14	Paper Feed Sensor	E2
SN2	16	Transport Sensor	E2
SN3	15	Paper End Sensor	E2
SN4	17	Upper Limit Sensor	F2
SN5	-	Remaining Paper Sensor	F2
SN6	12	Lower Limit Sensor	G2
SN7	4	End Fence Open/Close Sensor	D9
SN8	3	Left Tray Paper Sensor	D9
SN9	1	Transfer Home Position Sensor	D9
Solenoids			
Symbol	Index No.	Description	PtoP
SOL1	18	Pickup Solenoid	E2
Switches			
Symbol	Index No.	Description	PtoP
SW1	11	Tray Set Switch (R)	G2
SW2	10	Transport Cover Open/Close Switch	C9
SW3	2	Left Tray Set Switch	D9
PCB			
Symbol	Index No.	Description	PtoP
PCB1	5	Controller Board	A6
Others			
Symbol	Index No.	Description	PtoP
H1	13	Anti-Condensation Heater	C3

D696 POINT TO POINT DIAGRAM



D696 ELECTRICAL COMPONENT LAYOUT



Motors			
Symbol	Index No.	Description	PtoP
M1	8	Transport Motor	B7
M2	9	Paper Feed Motor	C7
M3	11	Tray Lift Motor	C7
Sensors			
Symbol	Index No.	Description	PtoP
SN1	2	Paper Feed Sensor	C2
SN2	4	Transport Sensor	C2
SN3	6	Paper End Sensor	C2
SN4	3	Upper Limit Sensor	C2
SN5	14	Lower Limit Sensor	D2
SN6	10	Remainder Sensor	D2
Solenoids			
Symbol	Index No.	Description	PtoP
SOL1	5	Pickup Solenoid	C2
Switches			
Symbol	Index No.	Description	PtoP
SW1	7	LCT Set Switch (Rear)	E2
SW2	1	LCT Set Switch (Front)	E2
SW3	12	Paper Supply Detection Switch	D7
SW4	12	Lift Motor Switch	D7
PCB			
Symbol	Index No.	Description	PtoP
PCB1	13	Control Board	F5