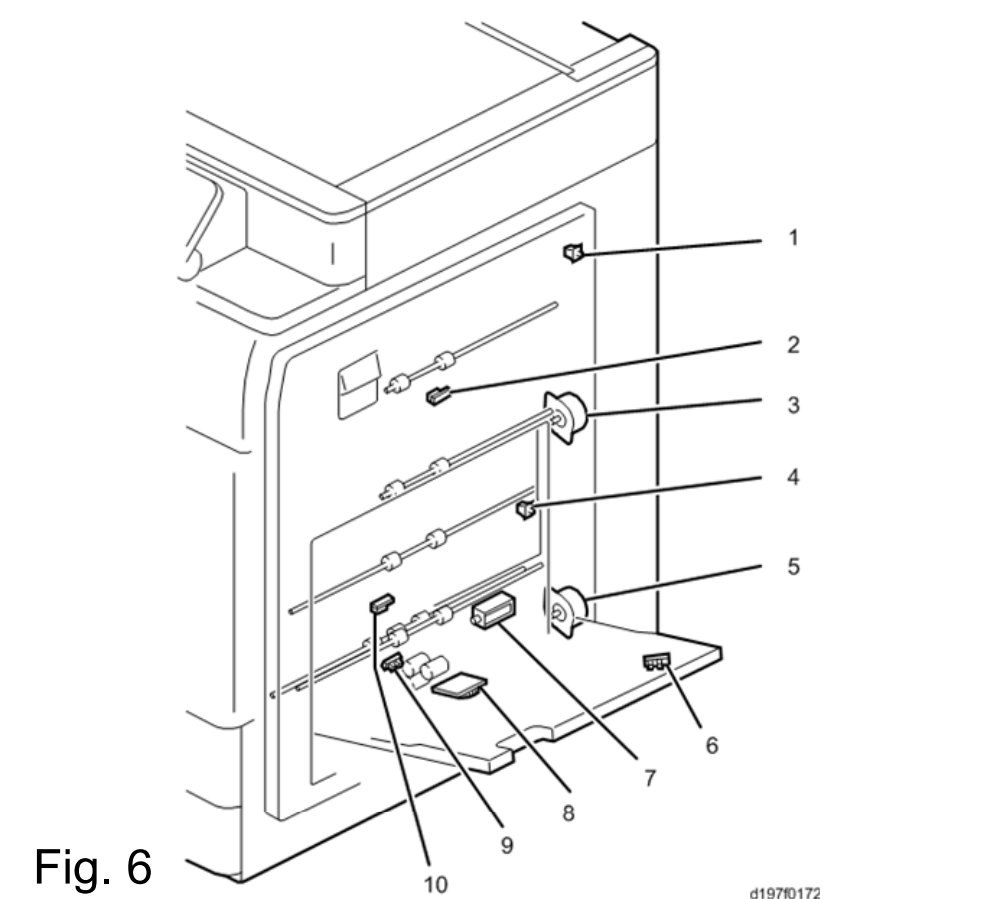
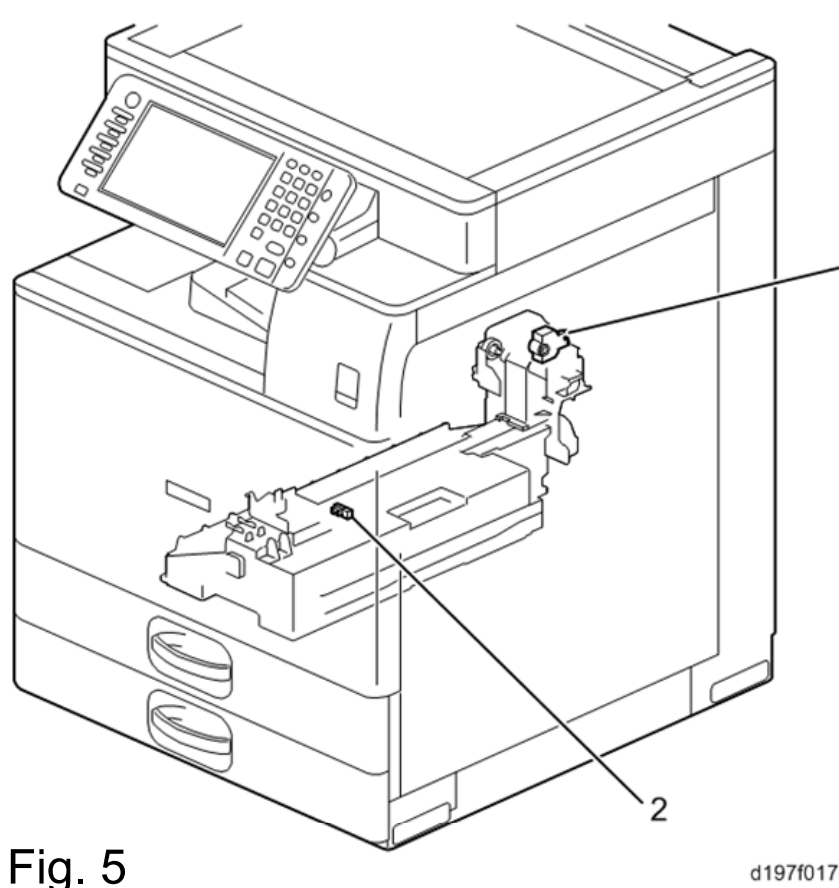
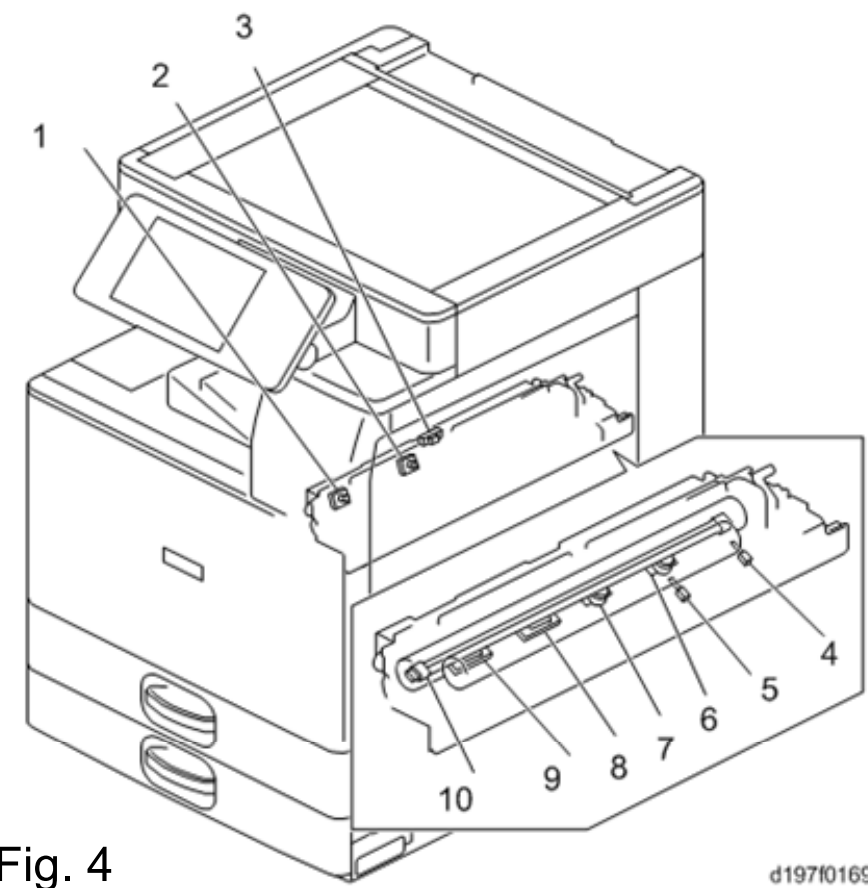
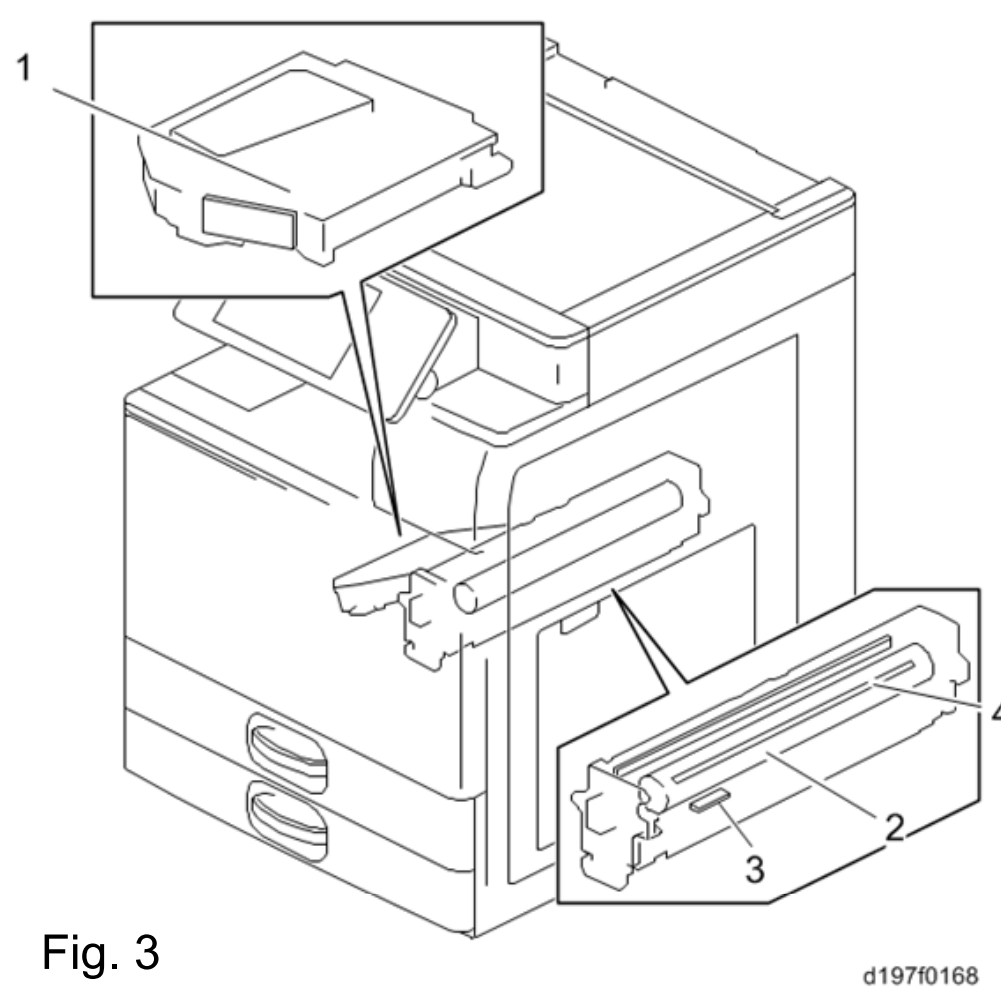
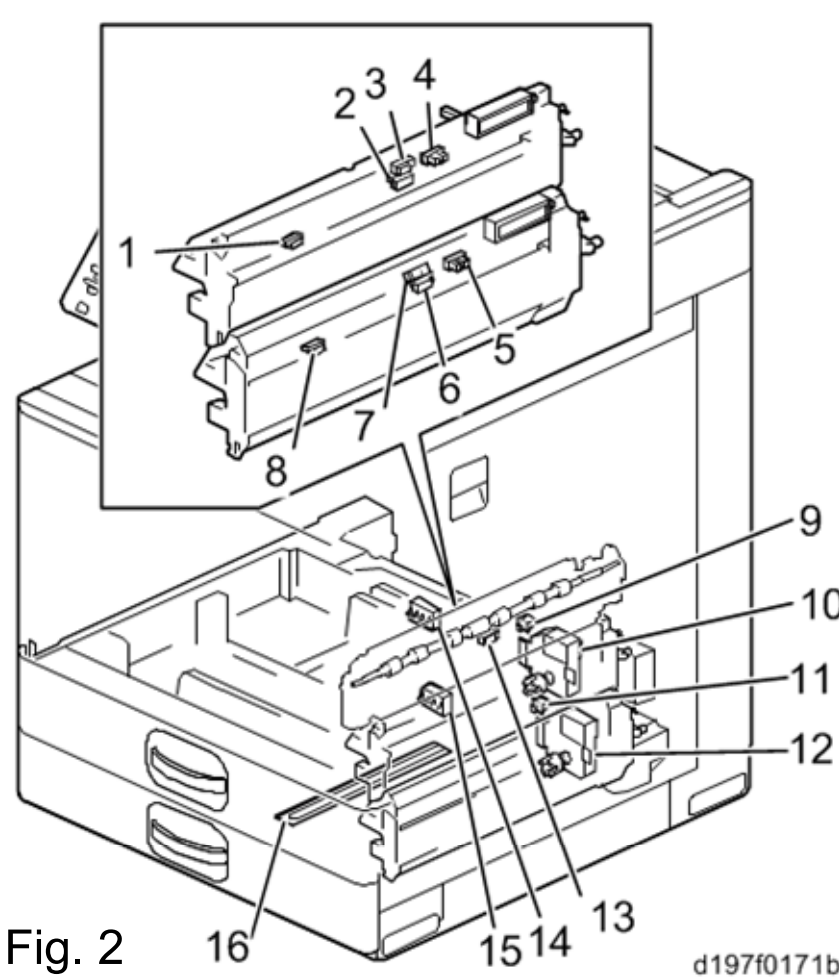
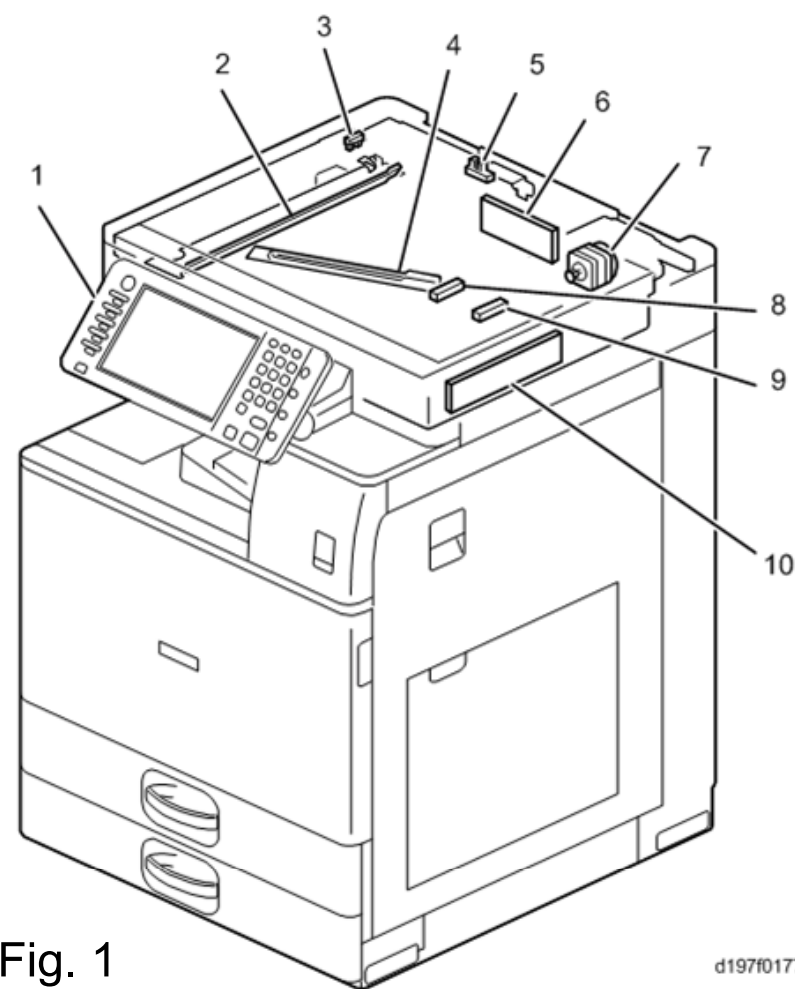




D197/D198/D199/D200/D201/D202 ELECTRICAL COMPONENT LAYOUT



D197/D198/D199/D200/D201/D202 ELECTRICAL COMPONENT LAYOUT

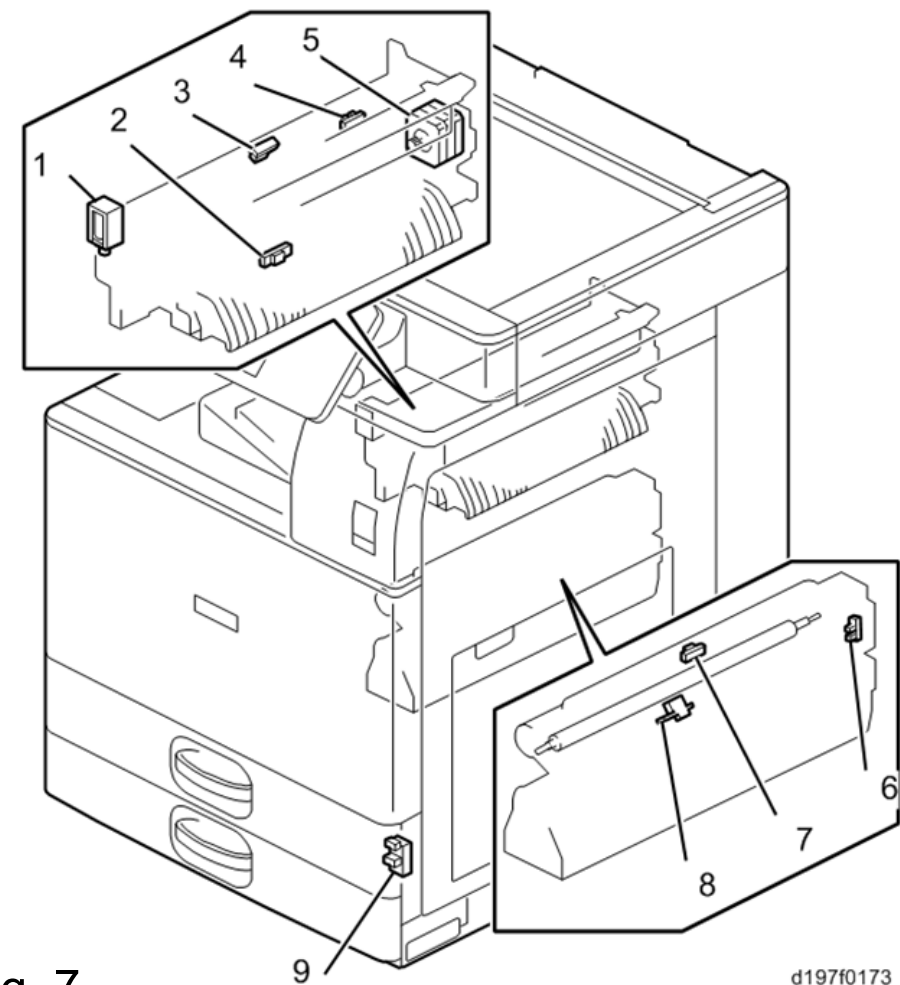


Fig. 7

d197f0173

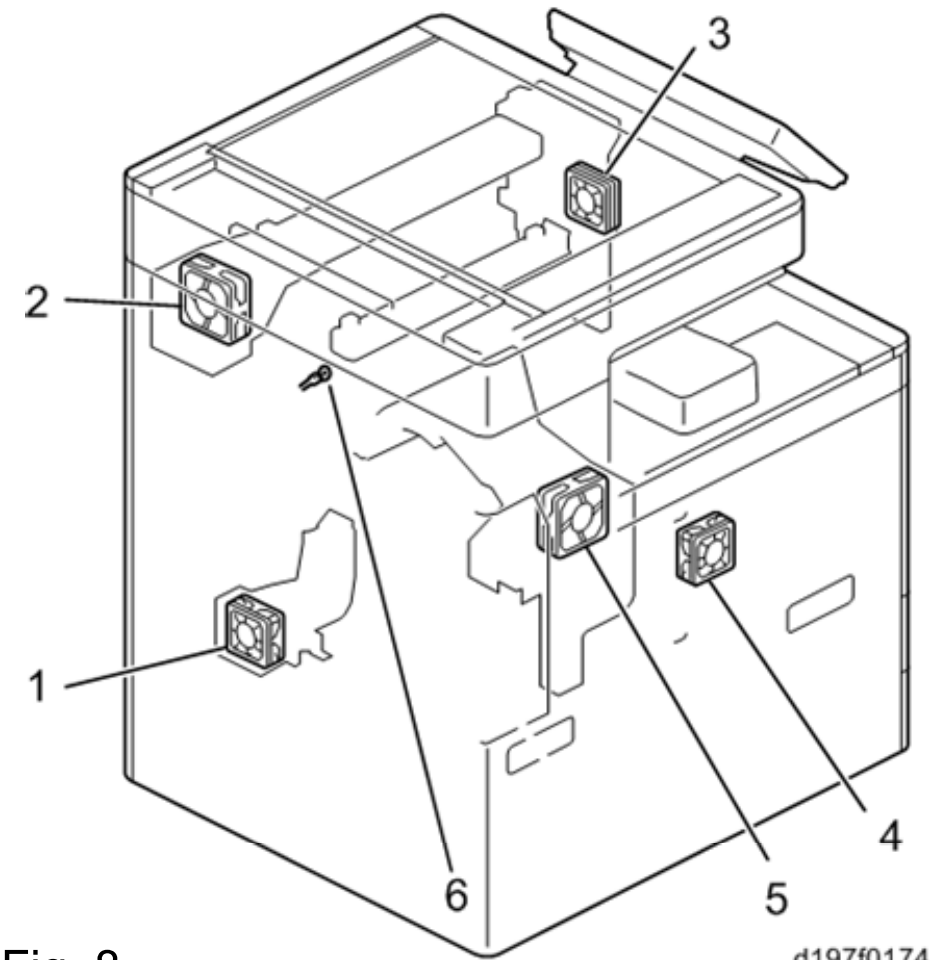


Fig. 8

d197f0174

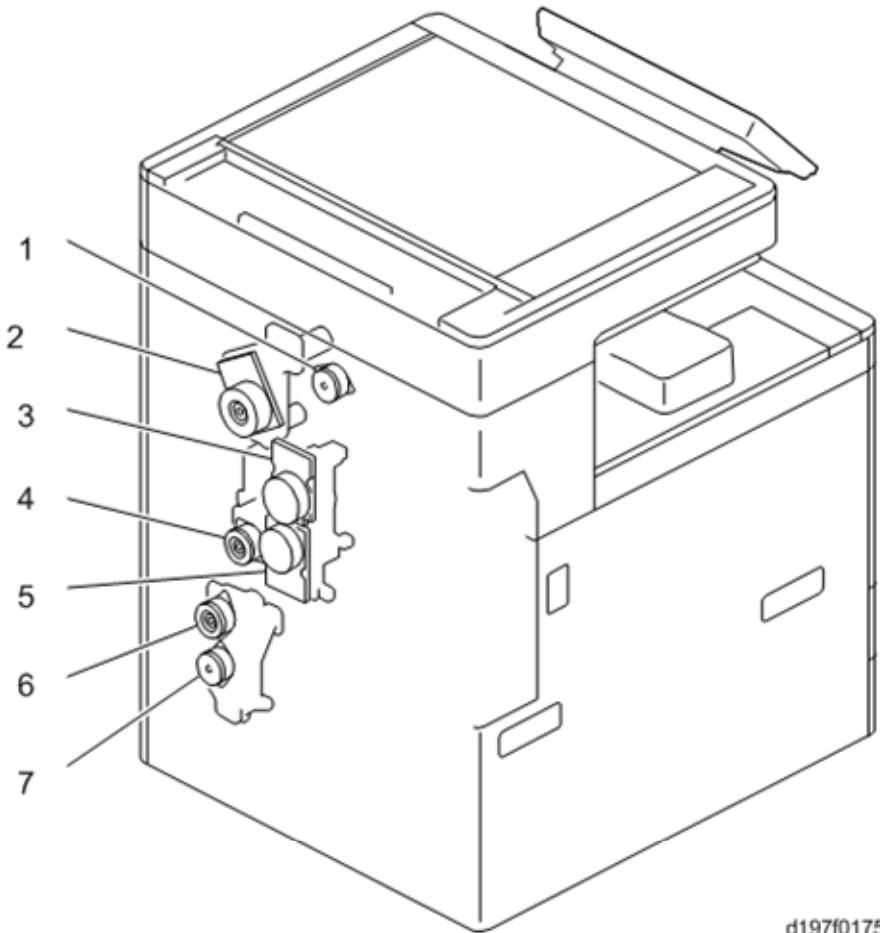


Fig. 9

d197f0175

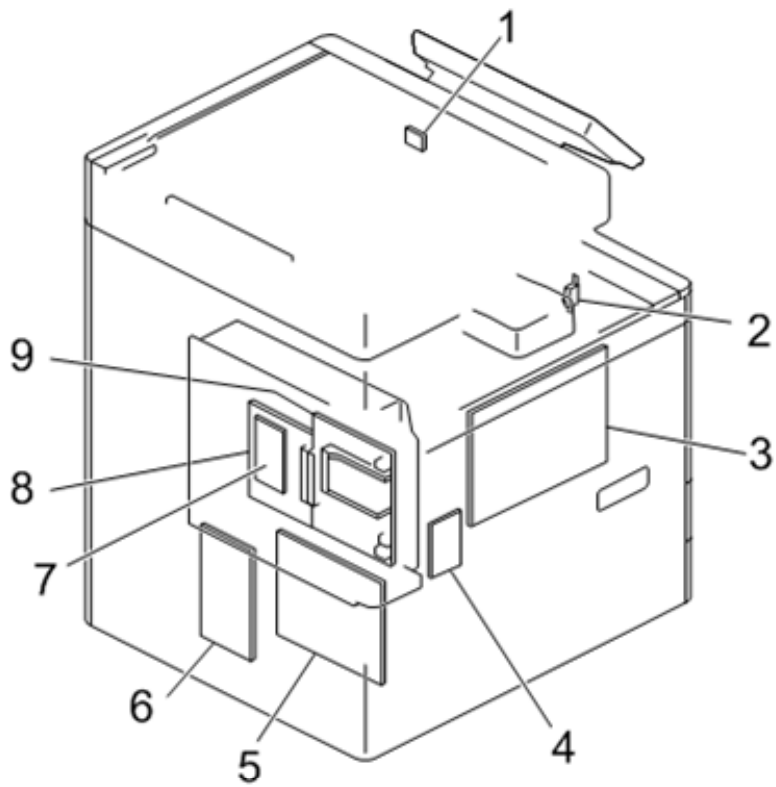
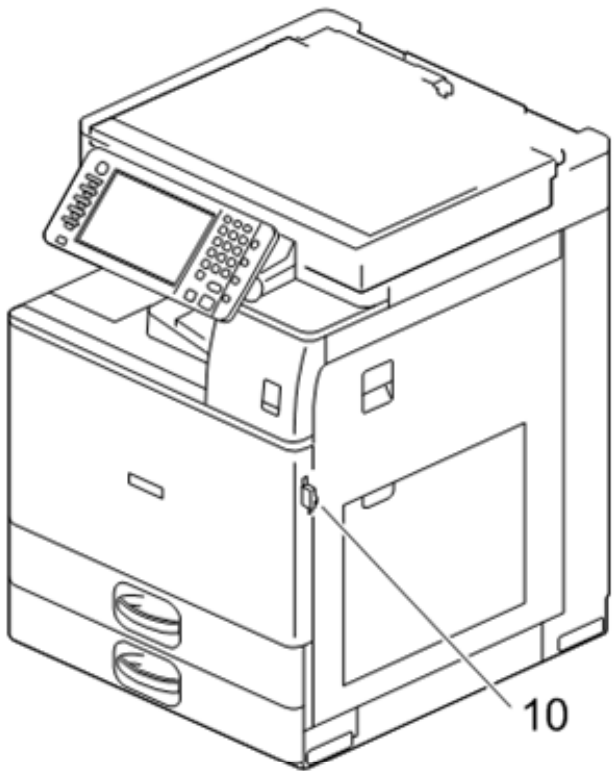


Fig. 10



d197z0408

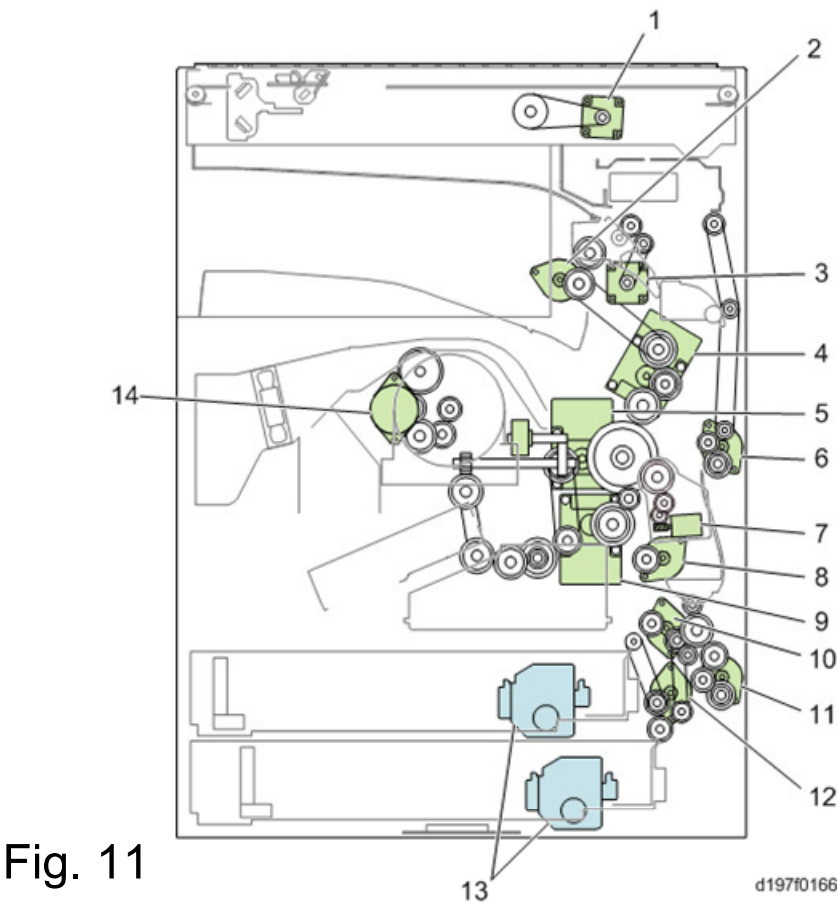


Fig. 11

d197f0166

D197/D198/D199/D200/D201/D202 ELECTRICAL COMPONENT LAYOUT

Symbol	Index No.	Description	P to P
Motors			
M1	Fig.2-10 Fig.11-13	1st Paper Feed Tray Lift Motor	B1
M2	Fig.2-12 Fig.11-13	2nd Paper Feed Tray Lift Motor	D1
M3	Fig. 7-5 Fig.11-3	Reverse motor (Inverter motor)	E1
M4	Fig.6-3 Fig.11-6	Duplex Entrance Motor	F1
M5	Fig.6-5 Fig.11-11	Duplex/Bypass Motor	G1
M6	Fig.9-2 Fig.11-4	D200, D201, D202: Fusing Motor D197, D198, D199: Fusing/ Paper Exit Motor	D4
M7	Fig.9-4 Fig.11-8	Registration Motor	D4
M8	Fig.9-1 Fig.11-2	Paper Exit Motor (D200, D201, D202 Only)	D4
M9	Fig.9-7 Fig.11-12	Paper Feed Motor	E4
M10	Fig.9-6 Fig.11-10	Vertical Transport Motor	E4
M11	Fig.11-7	Transfer Roller Contact Motor	A5
M12	Fig.5-1 Fig.9-3 Fig.11-5	Drum/Waste Toner Motor	B5
M13	Fig.9-5 Fig.11-9	Development Motor	B5
M14	Fig.11-14	Toner Supply Motor	F5
M15	-	Polygon Mirror Motor	C10
M16	Fig.1-7 Fig.11-1	Scanner Motor	G9
Switches			
SW1	Fig.2-14	1st Paper Feed Tray Size Switch	B1
SW2	Fig.2-9	1st Paper Feed Tray Set Switch	B1
SW3	Fig.2-15	2nd Paper Feed Tray Size Switch	C1
SW4	Fig.2-11	2nd Paper Feed Tray Set Switch	D1
SW5	Fig.6-4	Duplex Guide Switch	G1
SW6	-	Toner Bottle Detection Switch	A4
SW7	Fig.6-1	Right Cover Open/Close Switch	B4
SW8	Fig.10-10	Interlock switch (Right Cover)	F4
SW9	Fig.10-2	Interlock switch (Front Cover)	F4
SW10	Fig.10-1	Main Power Switch	B10
LEDs			
LED1	-	Transfer Unit Open/Close LED	C4
LED2	Fig.1-2	Scanner Lamp Unit (LED)	-
Fans			
FAN1	Fig.8-2	Fusing Fan	E4
FAN2	Fig.8-3	Paper Exit Cooling Fan	A5
FAN3	Fig.8-1	Development Bearing Cooling Fan	A5
FAN4	Fig.8-5	Development Exhaust Fan	E5
FAN5	Fig.8-4	PSU Cooling Fan	F5
PCBs			
PCB1	Fig.10-5	BCU1	D2/D3
PCB2	Fig.10-5	BCU2	D6
PCB3	Fig.10-6	HVP	A7
PCB4	-	MKB	B7
PCB5	Fig.10-4	DHB	C7
PCB6	Fig.10-3	PSU	D7
PCB7	Fig.1-6	SIO	F7
PCB8	Fig.10-8	IPU	B9
PCB9	Fig.10-7	IPU-SUB	A9
PCB10	Fig.10-9	Controller Board	A9
PCB11	-	LDB	B10
PCB12	Fig.1-10	SBU	G9
Solenoids			
SOL1	Fig.7-1	Paper Exit Switching Solenoid	D1
SOL2	Fig.6-7	Bypass Pickup Solenoid	E1
SOL3	-	Recycling Shutter Solenoid	B5

Symbol	Index No.	Description	P to P
Sensors			
S1	Fig.2-3	1st Paper End Sensor	A1
S2	Fig.2-1	1st Paper Feed Sensor	A1
S3	Fig.2-2	1st Vertical Transport Sensor	A1
S4	Fig.2-4	1st Paper Feed Tray Limit Sensor	B1
S5	Fig.2-7	2nd Paper End Sensor	C1
S6	Fig.2-8	2nd Paper Feed Sensor	C1
S7	Fig.2-6	2nd Vertical Transport Sensor	C1
S8	Fig.2-5	2nd Paper Feed Tray Limit Sensor	C1
S9	Fig.7-3	Reverse Sensor	D1
S10	Fig.7-2	Paper Exit Sensor	D1
S11	Fig.7-4	Paper Exit Full Sensor	D1
S12	Fig.4-3	Fusing Exit Sensor	E1
S13	Fig.6-9	Bypass Paper End Sensor	F1
S14	Fig.6-8	Bypass Width Sensor (Bypass Width Switch)	F1
S15	Fig.6-6	Bypass Length Sensor	F1
S16	Fig.6-2	Duplex Entrance Sensor	F1
S17	Fig.6-10	Duplex Exit Sensor	G1
S18	Fig.2-13	Registration Sensor	B4
S19	Fig.7-6	Transfer Unit Open/Close Sensor	B4
S20	-	ID Sensor	C4
S21	Fig.7-7	Fusing Entrance Sensor	C4
S22	Fig.5-2	Toner Collection Full Sensor	B5
S23	Fig.3-3	TD Sensor	C5
S24	Fig.7-9	Temperature/Humidity Sensor	C5
S25	Fig.8-6	Temperature Sensor	C5
S26	Fig.4-9	Thermostat (End)	A4
S27	Fig.4-8	Thermostat(Center)	A4
S28	Fig.4-4	NC Sensor (End)	A4
S29	Fig.4-5	NC Sensor (Center)	B4
S30	Fig.1-3	Scanner Home Position Sensor Scanner HP Sensor	G9
S31	Fig.1-5	DF position Sensor	G9
S32	Fig.1-8	APS sensor	F9
S33	Fig.1-9	APS sensor	F9
S34	Fig.7-8	Transfer Roller Contact Sensor Transfer Contact Sensor	A5
Heaters			
HTR1	-	Anti-condensation Heater (PCU)	C8
HTR2	Fig.1-4	Anti-condensation Heater (Scanner)	C8
HTR3	Fig.2-16	Paper Feed Heater	C8
HTR4	-	Bank Heater	C8
Fuse			
FU1	-	Fusing Unit New Detection Fuse	A4
Lamps			
L1	Fig.3-2	Quenching Lamp	B5
L2	Fig.3-4	PCL (Pre Cleaning Lamp)	C5
L3	Fig.4-10	Fusing lamp	D9
Thermostats/Thermistors			
TH1	Fig.4-1	Fusing Thermopile (End)	E5
TH2	Fig.4-2	Fusing Thermopile (Center)	E5
TH3	Fig.4-6	Thermostat (end)	-
TH4	Fig.4-7	Thermostat (center)	-
Others			
OT1	Fig.3-1	LD unit	B9
OT2	Fig.1-1	Operation Panel	C10

D197/D198/D199/D200/D201/D202 Harness Pin Assignment (Mainframe)

Harness Information				From/To Information						Note
Part Number	Start	End	Color	From	Pin No.	Logical Signal Name	I/O	To	Signal Name	
D2025301 D2025313 (Mainframe)	CN116 - 1	CN1 - 3	Yellow	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			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	-	-		7	N.C.	N	N.C.	N.C.	
	- 8	-	-		8	N.C.	N		N.C.	
	- 9	-	-		9	N.C.	N		N.C.	
	- 10	-	-		10	N.C.	N		N.C.	
	- 11	-	-		11	N.C.	N		N.C.	
	- 12	-	-		12	N.C.	N		N.C.	
	- 13	CN4 - 3	Yellow		13	GND	G	Transfer Contact Sensor	GND	
	- 14	- 2			14	TTSCASN_SNS	<<<		Transfer Contact sensor	
	- 15	- 1			15	+5V	P		+5V	
	- 16	CN5 - 3			16	GND	G	D2025306 (Mainframe)	GND	From: BCU (CN116) - D2025301 (Mainframe) - D2025306 (Mainframe) - Terminal: Electrical components
	- 17	- 2			17	LWBNFSN_SNS	<<<	Terminal: Toner Collection Full Sensor	Toner Collection Full Sensor	
	- 18	- 1			18	+5V	P		+5V	
	CN117 - A1	CN6 - 2			CN117 A1	LWSOCSL_OUT1	-	Recycling Shutter Solenoid	Recycling Shutter Solenoid: OUT/1	
	- A2	- 1			A2	LWSOCSL_OUT2	-		Recycling Shutter Solenoid: OUT/2	
	- A3	CN7 - 2			A3	TTSCASN_OUT1	-	Transfer Roller Contact Motor	Transfer Roller Contact Motor: OUT/1	
	- A4	- 1			A4	TTSCASN_OUT2	-		Transfer Roller Contact Motor: OUT/2	
	- A5	CN8 - 10			A5	PDR_MT_GA	-	Drum/Waste Toner Motor	Drum/Waste Toner Motor: SW Gain	
	- A6	- 9			A6	PDR_MT_CLK	-		Drum/Waste Toner Motor: Clock	
	- A7	- 8			A7	PDR_MT_BRK_N	-		Drum/Waste Toner Motor: Brake	
	- A8	- 7			A8	PDR_MT_CW	-		Drum/Waste Toner Motor: Rotating Direction	
	- A9	- 6			A9	PDR_MT_STA_N	-		Drum/Waste Toner Motor: Start	
	- A10	- 5			A10	PDR_MT_LOK_N	<<<		Drum/Waste Toner 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: Rotating Direction	
	- B5	- 6			B5	ODV_MT_STA_N	-		Development Motor: Start	
	- 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	-	D202530 7(Mainframe)	Quenching Lamp: OUT	From: BCU (CN117) - D2025301(Mainframe) - D2025307(Mainframe) - Terminal: Quenching Lamp
	- B12	- 1			B12	+24VS	P	Terminal: Quenching Lamp	+24VS	
	- B13	-	-		B13	N.C.	N		N.C.	
	- B14	-	-		B14	N.C.	N		N.C.	
	CN118 - 1	CN11 - 6	Yellow		CN118 1	GND	G	TD Sensor	GND	From: BCU (CN118) - D2025301 (Mainframe) - D2023172 (PCU) - Terminal: 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 Sensor	
	- 8	- 3			8	GND	G		GND	
	- 9	- 2			9	TTS_TH_RHV	<<<		Hudmidty 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	
	CN134 - 1	CN14 - 6	Purple		CN134 1	C1TRVSN_SNS	-	1 Bin Tray	1BIN: Reverse	
	- 2	- 5			2	C1TPOSN_SNS	<<<		1BIN: Paper Remaining Detection	
	- 3	- 4			3	C1T_SS_SET	<<<		1BIN: Set Detection	
	- 4	- 3			4	GND	G		GND	
	- 5	- 2			5	+5VE_LPS	P		+5VE_LPS	
	- 6	- 1			6	+5V	P		+5V	
	CN16 - 1	CN15 - 2		1 Bin Tray	CN204 1	CATHODE	<<<	1 Bin Tray LED	1 Bin Tray LED: CATHODE	
	- 2	- 1			2	ANODE			1 Bin Tray LED: ANODE	
	CN139 - 1	CN17 - 10		BCU	CN139 1	GND	G	Bridge Unit / Shift Tray / Paper Exit Tray	GND	
	- 2	- 9			2	+5V	P		+5V	
	- 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 Tray Set Detection	
	- 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	N.C.	N	N.C.	N.C.	
	- 11	-	-		11	N.C.	N	N.C.	N.C.	
	- 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 <Paper Exit Tray> Paper Exit Tray 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	N.C.	N	N.C.	N.C.	
	- 22	-	-		22	N.C.	N	N.C.	N.C.	

D197/D198/D199/D200/D201/D202 Harness Pin Assignment (Mainframe)

Harness Information				From/To Information						Note
Part Number	Start	End	Color	From	Pin No.	Logical Signal Name	I/O	To	Signal Name	
D2025301 D2025313 (Mainframe)	CN540 - 1	CN19 - 2	Yellow	IPU	CN541	1 ACSW_STAT_ON_N (PW_BTN_N)	<<<	Main Power Switch (DC Switch)	Main Power DC Push SW Status Monitoring	
	- 2	- 1			2	GND	G		GND	
	-	CN20 - 4	-	BCU	CN145	1 N.C.	N	N.C.		
	CN145 - 1	- 3	Yellow		1	+3.3V	P	Fusing Roller Temperature Sensor (End)	+3.3V	
	- 2	- 2			2	GND	G		GND	
	- 3	- 1			3	FFR_TSEG_SN-O	<<<		Fusing Roller Temperature Sensor (End)	
	-	CN21 - 4	-		4	-	-			
	CN145 - 4	- 3	Yellow		4	+3.3V	P	Fusing Roller Temperature Sensor (Center)	+3.3V	
	- 5	- 2			5	GND	G		GND	
	- 6	- 1			6	FFR_TSCT_SN-O	<<<		Fusing Roller Temperature Sensor (Center)	
	CN141 - 1	CN22 - 3	Yellow		CN141	1 +24V_LPS	P	PCL (Pre Cleaning Light)	PCL (Pre Cleaning Light): +24V	
D2025302 (Mainframe)	-	- 2	-		2	N.C.	N		N.C.	
	CN141 - 2	- 1	Yellow		2	MPT_LED_LED1	-		PCL (Pre Cleaning Light): Cathode	
	CN127 - 1	CN1 - 4	Yellow		CN127	1 NTBDRMT_A	-	Toner Supply Motor	Phase A	
	- 2	- 3			2	NTBDRMT_XA	-		Phase XA	
D2025303 (Mainframe)	- 3	- 2			3	NTBDRMT_B	-		Phase B	
	- 4	- 1			4	NTBDRMT_XB	-		Phase XB	
	CN107 - 1	CN528 - 20	Yellow		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	ADF_TXD_O	-		ADF_TX	
	- 9	- 12			9	ADF_RXD_I	<<<		ADF_RX	
	- 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	FLUKI_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	-		GAVD 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	
D2025304 (Mainframe)	- 19	- 2			19	SYDO_O	-		GAVD Sync Serial TX	
	- 20	- 1			20	SYDI_I	<<<		GAVD Sync Serial RX	
	CN128 - 1	CN1 - 12	Yellow	BCU	CN128	1 PWM_D	-	HVP	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	
D2025305 (Mainframe)	- 11	- 2			11	GND	G		GND	
	- 12	- 1			12	+24VS	P		+24VS	
	-	CN1 - 8	-	BCU	-	-	-	-	-	
	CN135 - 1	- 7	Purple		CN135	1 CBANK_RXD	<<<	Paper Bank	Paper Bank: UART RX	
	- 2	- 6			2	CBANK_TXD	-		Paper Bank: UART TX	
	- 3	- 5			3	GND	G		GND	
	- 4	- 4			4	GND	G		GND	
	- 5	- 3			5	+5V	P		+5V	
	- 6	- 2			6	+5V	P		+5V	
	- 7	- 1			7	GND	G		GND	
	- 8	CN2 - 7			8	GND	G		GND	
	- 9	- 6			9	GND	G		GND	
	- 10	- 5			10	GND	G		GND	
	- 11	- 4			11	+24V	P		+24V	
	- 12	- 3			12	+24V	P		+24V	
	- 13	- 2			13	+24V	P		+24V	
	- 14	- 1			14	+24V	P		+24V	
	-	CN3 - 8	-		-	-	-	-	-	
	CN137 - 1	- 7	Purple		CN137	1 EFIN_RXD	<<<	Finisher	Finisher: UART RX	
	-	- 6			-	-	-	-	-	
	CN137 - 2	- 5	Purple		2	EFIN_TXD	-	Finisher	Finisher: UART TX	
	-	- 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	
D2025306 (Mainframe)	-	- 1	-		-	-	-	-	-	
	CN5 - 1	CN1 - 3	Purple	D2025301	CN5	1 GND	G	Toner Collection Full Sensor	GND	
	- 2	- 2			2	LWBNFSN_SNS	<<<		Toner Collection Full Sensor	
D2025307 (Mainframe)	- 3	- 1			3	+5V	P		+5V	
	CN10 - 1	CN1 - 2	Purple	D2025301	CN10	1 PHRDQLE_LED-K	-	Quenching Lamp	Quenching Lamp: OUT	
D2025320 for D20x D1995320 for D19x (Mainframe)	- 2	- 1			2	+24VS	P		+24VS	
	CN114 - 1	CN1 - 10	Yellow	BCU	CN114	1 FFU_MT_GA	-	D19x: Fusing/Paper Exit Motor D20x: Fusing Motor	D19x: Fusing/Paper Exit Motor: SW Gain D20x: Fusing Motor: SW Gain	
	- 2	- 9			2	FFU_MT_CLK	-		D19x: Fusing/Paper Exit Motor: Clock D20x: Fusing Motor: Clock	
	- 3	- 8			3	FFU_MT_BRK_N	-		D19x: Fusing/Paper Exit Motor: Brake D20x: Fusing Motor: Brake	
	- 4	- 7			4	FFU_MT_CW	-		D19x: Fusing/Paper Exit Motor: Rotating Direction D20x: Fusing Motor: Rotating Direction	
	- 5	- 6			5	FFU_MT_STA_N	-		D19x: Fusing/Paper Exit Motor: Start D20x: Fusing Motor: Start	
	- 6	- 5			6	FFU_MT_LOK_N	<<<		D19x: Fusing/Paper Exit Motor: Lock D20x: 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	

D197/D198/D199/D200/D201/D202 Harness Pin Assignment (Mainframe)

Harness Information				From/To Information						Note
Part Number	Start	End	Color	From	Pin No.	Logical Signal Name	I/O	To	Signal Name	
D2025320 for D20x D1995320 for D19x (Mainframe)	CN113	- A1	CN2 - 8	BCU	CN113	A1 CRG MT ENC-A	<<<	Registration Motor	Registration Motor: Encoder A	D20x models only
		- A2	- 7			A2 CRG MT ENC-B	<<<		Registration Motor: Encoder B	
		- A3	- 6			A3 +5V	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	D20x: Paper Exit Motor: Encoder A	
		- A10	- 7			A10 EEX MT ENC-B	<<<		D20x: Paper Exit Motor: Encoder B	
		- A11	- 6			A11 +5V	P		+5V	
		- A12	- 5			A12 EEX MT CW	-		D20x: Paper Exit Motor: Rotating Direction	
		- A13	- 4			A13 EEX MT PWM	-		D20x: Paper Exit Motor: Clock	
		- A14	- 3			A14 EEX MT BRK N	-		D20x: Paper Exit Motor: Brake	
		- A15	- 2			A15 GND	G		GND	
		- A16	- 1			A16 +24VS	P		+24VS	
		- A17	- -			A17 N.C.	N	Paper Feed Motor	N.C.	
		- B1	- -			B1 N.C.	N		N.C.	
		- B2	CN3 - 8			B2 CFDFEMT ENC-A	<<<		Paper Feed Motor: Encoder A	
		- B3	- 7			B3 CFDFEMT ENC-B	<<<		Paper Feed Motor: Encoder B	
		- B4	- 6			B4 +5V	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	Vertical Transport Motor	GND	
		- B9	- 1			B9 +24VS	P		+24VS	
		- B10	CN4 - 8			B10 CFDPFMT ENC-A	<<<		Vertical Transport Motor: Encoder A	
		- B11	- 7			B11 CFDPFMT ENC-B	<<<		Vertical Transport Motor: Encoder B	
		- B12	- 6			B12 +5V	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	Fusing Fan	GND	
		- B17	- 1			B17 +24VS	P		+24VS	
	CN129	- 1	CN5 - 3		CN129	1 FFUSFFN OUT1	-		Fusing Fan: ON	
		- 2	- 2			2 FFUSFFN LOK	<<<		Fusing Fan: Lock	
		- 3	- 1			3 GND	G		GND	
D2025321 for 200V & D20x D1995321 for 200V & D19x (Mainframe)	CN110	- 1	CN1 - 14	CN110	CN110	1 +24VS	P	D1492708 (1st Paper Feed Unit)	+24VS	From: BCU(CN110) - D2025321/D1995321(Mainframe) - D2022708 (1st Paper Feed Unit) - Terminal: Electrical Components
		- 2	- 13			2 CF1PUSL OUT2	-		Pick-up Solenoid *Japan Only	
		- 3	- 12			3 GND	G		GND	
		- 4	- 11			4 CF1SN SNS	<<<		Terminal:	
		- 5	- 10			5 +5V	P		*1st Paper Feed Sensor	
		- 6	- 9			6 GND	G		*1st Paper End Sensor	
		- 7	- 8			7 CH1SN SNS	<<<		*1st Paper Feed Tray Limit Sensor	
		- 8	- 7			8 +5V	P	1st Paper Feed Tray Size Switch	1st Vertical Transport Sensor	
		- 9	- 6			9 GND	G		+5V	
		- 10	- 5			10 CT1PESN SNS	<<<		GND	
		- 11	- 4			11 +5V	P		1st Paper End Sensor	
		- 12	- 3			12 GND	G		+5V	
		- 13	- 2			13 CT1ULSN SNS	<<<		GND	
		- 14	- 1			14 +5V	P		1st Paper Feed Tray Limit Sensor	
		- 15	- -			15 N.C.	N	1st Paper Feed Tray Set Switch	+5V	
		- 16	- -			16 N.C.	N		N.C.	
		- 17	CN2 - 5			17 CT1SZSW SW4	<<<		N.C.	
		- 18	- 4			18 GND	G		N.C.	
		- 19	- 3			19 CT1SZSW SW3	<<<		1st Paper Feed Tray Size Switch:4	
		- 20	- 2			20 CT1SZSW SW2	<<<		GND	
		- 21	- 1			21 CT1SZSW SW1	<<<		1st Paper Feed Tray Size Switch:3	
		- 22	CN3 - 5			22 CT1UPMT SW2	<<<		1st Paper Feed Tray Size Switch:2	
		- 23	- 4			23 GND	G	1st Paper Feed Tray Lift Motor (Paper Remaining Sensor)	1st Paper Feed Tray Size Switch:1	
		- 24	- 3			24 CT1UPMT SW1	<<<		1st Paper Feed Tray Lift Motor (Paper Remaining Sensor): 2	
		- 25	- 2			25 CT1UPMT OUT2	-		GND	
		- 26	- 1			26 CT1UPMT OUT1	-		1st Paper Feed Tray Lift Motor (Paper Remaining Sensor): 1	
		- 27	CN4 - 2			27 GND	G	1st Paper Feed Tray Set Switch	1st Paper Feed Tray Set Switch: OUT/2	
		- 28	- 1			28 CT1STSW SW1	<<<		1st Paper Feed Tray Set Switch: OUT/1	
	CN111	- 1	CN5 - 14		CN111	1 +24VS	P		GND	
		- 2	- 13			2 CF2PUSL OUT2	-		1st Paper Feed Tray Set Switch	
		- 3	- 12			3 GND	G	D1492708 (2nd Paper Feed Unit)	+24VS	From: BCU(CN111) - D2025321/D1995321(Mainframe) - D2022708 (2nd Paper Feed Unit) - Terminal: Electrical Components
		- 4	- 11			4 CF2SN SNS	<<<		Pick-up Solenoid *Japan Only	
		- 5	- 10			5 +5V	P		GND	
		- 6	- 9			6 GND	G		Terminal:	
		- 7	- 8			7 CH2SN SNS	<<<		*2nd Paper Feed Sensor	
		- 8	- 7			8 +5V	P		*2nd Paper End Sensor	
		- 9	- 6			9 GND	G		*2nd Paper Feed Tray Limit Sensor	
		- 10	- 5			10 CT2PESN SNS	<<<	2nd Paper Feed Tray Size Switch	GND	
		- 11	- 4			11 +5V	P		2nd Vertical Transport Sensor	
		- 12	- 3			12 GND	G		+5V	
		- 13	- 2			13 CT2ULSN SNS	<<<		GND	
		- 14	- 1			14 +5V	P		2nd Paper Feed Tray Limit Sensor	
		- 15	- -			15 N.C.	N		+5V	
		- 16	- -			16 N.C.	N	2nd Paper Feed Tray Lift Motor (Paper Remaining Sensor)	N.C.	
		- 17	- -			17 N.C.	N		N.C.	
		- 18	- -			18 N.C.	N		N.C.	
		- 19	CN6 - 5			19 CT2SZSW SW4	<<<		N.C.	
		- 20	- 4			20 GND	G	2nd Paper Feed Tray Set Switch	2nd Paper Feed Tray Size Switch:4	
		- 21	- 3			21 CT2SZSW SW3	<<<		GND	
		- 22	- 2			22 CT2SZSW SW2	<<<		2nd Paper Feed Tray Size Switch:3	
		- 23	- 1			23 CT2SZSW SW1	<<<		2nd Paper Feed Tray Size Switch:2	
		- 24	CN7 - 5			24 CT2UPMT SW2	<<<		2nd Paper Feed Tray Size Switch:1	
		- 25	- 4			25 GND	G	2nd Paper Feed Tray Lift Motor (Paper Remaining Sensor)	2nd Paper Feed Tray Lift Motor (Paper Remaining Sensor): 2	
		- 26	- 3			26 CT2UPMT SW1	<<<		GND	
		- 27	- 2			27 CT2UPMT OUT2	-		2nd Paper Feed Tray Lift Motor (Paper Remaining Sensor): 1	
		- 28	- 1			28 CT2UPMT OUT1	-	2nd Paper Feed Tray Lift Motor	2nd Paper Feed Tray Set Switch: OUT/2	
		- 29	CN8 - 2			29 GND	G		2nd Paper Feed Tray Set Switch: OUT/1	
		- 30	- 1			30 CT2STSW SW1	<<<		GND	
									2nd Paper Feed Tray Set Switch	

D197/D198/D199/D200/D201/D202 Harness Pin Assignment (Mainframe)

Harness Information				From/To Information							Note
Part Number	Start	End	Color	From	Pin No.	Logical Signal Name	I/O	To	Signal Name		
D2025321 for 200V & D20x D1995321 for 200V & D19x (Mainframe)	CN124 - 1	CN9 - 18	Yellow	BCU	CN124	1 +24VS	P	D2024499 (Paper Exit Unit)	+24VS	From: BCU (CN124, CN125) - D2025321/D1995321 (Mainframe) - D2024499 (Paper Exit) - Terminal: Electrical Components	
	- 2	- 17				2 EEXDVSL_OUT2	-		Paper Exit Switching Solenoid: PWM		
	- 3	- 16				3 GND	G	Terminal:	GND		
	- 4	- 15				4 RRV_SN_SNS	<<<	*Paper Exit Switching Solenoid	Reverse Sensor		
	- 5	- 14				5 +5V	P	*Reverse Sensor	+5V		
	- 6	- 13				6 GND	G	*Paper Exit Sensor	GND		
	- 7	- 12				7 EEX_SN_SNS	<<<	*Paper Exit Full Sensor	Paper Exit Sensor		
	- 8	- 11				8 +5V	P	*Fusing Exit Sensor	+5V		
	- 9	- 10				9 GND	G	*Reverse Motor	GND		
	- 10	- 9				10 EEXFLSN_SNS	<<<		Paper Exit Full Sensor		
	- 11	- 8				11 +5V	P		+5V		
	- 12	- 7				12 GND	G		GND		
	- 13	- 6				13 FFUOUSN_SNS	<<<		Fusing Exit Sensor		
	- 14	- 5				14 +5V	P		+5V		
	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		
	- A1	CN10 - 8	Yellow		CN115	A1 FFR_TSFR_SN-C	<<<	Fusing Roller Temperature Sensor (End)	Fusing Roller Temperature Sensor (End): Compensation		
	- A2	- 7				A2 FFR_TSFR_SN-D	<<<		Fusing Roller Temperature Sensor (End): Detection		
	- A3	- 6				A3 GND	G		GND		
	- A4	- 5				A4 FFR_TSBC_SN-C	<<<	Fusing Roller Temperature Sensor (Center)	Fusing Roller Temperature Sensor (Center): Compensation		
	- A5	- 4				A5 FFR_TSBC_SN-D	<<<		Fusing Roller Temperature Sensor (Center): Detection		
	- A6	- 3				A6 GND	G		GND		
	- A7	- 2				A7 FFUNWUFU_IN	-	Fusing Unit New Detection Fuse	Fusing Unit New Detection Fuse: Trigger		
	- A8	- 1				A8 GND	G		GND For FUSE		
	- A9	CN11 - 9				A9 FPR_TSFR_SN+	<<<	Pressure Roller Temperature Sensor (End)	Pressure Roller Temperature Sensor (End)		
	- A10	- 8				A10 GND	G		GND		
	- A11	- 7				A11 FPR_TSBC_SN+	<<<	Pressure Roller Temperature Sensor (Center)	Pressure Roller Temperature Sensor (Center)		
	- A12	- 6				A12 GND	G		GND		
	- A13	- 5				A13 FFU_SS_DOM	<<<	Set Detection Mechanism	Set Detection Mechanism: Japan		
	- A14	- 4				A14 FFU_SS_NA	<<<		Set Detection Mechanism: NA/TWN		
	- A15	- 3				A15 FFU_SS_EU	<<<		Set Detection Mechanism: EU		
	- A16	- 2	Yellow			A16 GND	G		D19x: GND for Set Detection	D2025321 (200V & D20x): N.C.	
	- A17	- 1	Yellow			A17 GND	G		D20x: GND for Set Detection	D1995321 (200V & D20x): N.C.	
	- A18	-	-			A18 N.C.	N	N.C.	N.C.		
	- A19	-	-			A19 N.C.	N	N.C.	N.C.		
	- B1	CN12 - 3	Yellow		CN115	B1 GND	G	D2022556 (Registration)	GND	From: BCU(CN115) - D2025321/D1995321(Mainframe) - D2022556 (Registration) - Terminal: Registration Sensor	
	- B2	- 2				B2 CRG_SN_SNS	<<<	Terminal: Registration Sensor	Registration Sensor		
	- B3	- 1				B3 +5V	P		Power +5V		
	- B4	CN13 - 3				B4 GND	G	Transfer Unit Open/Close Sensor	GND		
	- B5	- 2				B5 TTSCCSN_SNS	<<<		Transfer Unit Open/Close Sensor		
	- B6	- 1				B6 +5V	P		+5V		
	- B7	CN14 - 2				B7 GND	G	Right Cover Open/Close Switch	GND		
- B8	- 1				B8 MRDOCSW_SW1	<<<		Right Cover Open/Close Switch			
- B9	CN17 - 2				B9 GND	G	Toner Bottle Detection Switch	GND			
- B10	- 1				B10 LWBSTSW_SW1	<<<		Toner Bottle Detection Switch			
- B11	CN16 - 9				B11 PDRPNSN_V-C	<<<	D2026237 (Transfer Unit)	ID Sensor	From: BCU(CN115) - D2025321/D1995321(Mainframe) - D2026237(Transfer Unit) - Terminal: Electrical Components		
- B12	- 8				B12 PDRPNSN_L-C	-		ID Sensor: PWM			
- B13	- 7				B13 GND	G	Terminal:	GND			
- B14	- 6				B14 +3.3V	P	*ID Sensor	+3.3V			
- B15	- 5				B15 TTSCCLE_LED-K	-	*Transfer Unit Open/Close LED	Transfer Unit Open/Close LED: OUT			
- B16	- 4				B16 +5V	P	*Fusing Entrance Sensor	+5V			
- B17	- 3				B17 GND	G		GND			
- B18	- 2				B18 FFUINSN_SNS	<<<		Fusing Entrance Sensor			
- B19	- 1				B19 +5V	P		+5V			
D2025322 (D20x) D1995322 (D19x) (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	CN310 - 1			CN912	1 GND	G	SIO CN310-1	GND		
	- 2	- 2				2 GND	G	SIO CN310-2	GND		
	- 3	CN119 - 1				3 GND	G	BCU CN119-1	GND		
	- 4	- 2				4 GND	G	BCU CN119-2	GND		
	- 5	CN310 - 3	Orange			5 +24V	P	SIO CN310-3	+24V		
	- 6	- 4				6 +24V	P	SIO CN310-4	+24V		
	- 7	CN119 - 3				7 +24V	P	BCU CN119-3	+24VL		
	- 8	- 4				8 +24V	P	BCU CN119-4	+24V		
	CN913 - 1	CN2 - 2	Yellow		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 Signal1			
	- 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	N.C.	N.C.		
	- 11	CN120 - 3	Yellow			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 QPSCFLN_OUT1	-	PSU Cooling Fan	PSU Cooling Fan: ON	D20x only		
- 2	- 5				5 QPSCFLN_LOK	<<<		PSU Cooling Fan: Lock			
- 1	- 6				6 GND	G		GND			
CN3 - 3	- 7				7 QCTCLFN_OUT1	-	Development Bearing Cooling Fan (Front)	Development Bearing Cooling Fan (Front): ON			
- 2	- 8				8 QCTCLFN_LOK	<<<		Development Bearing Cooling Fan (Front): Lock			
- 1	- 9				9 GND	G		GND			
- GND	-	-									
D2025333 (Mainframe)	CN133 - 1	CN133 - 4	Brown	BCU	CN133	GND	G	Key Counter	GND	With Wrong Insert Protection Cover	
	- 2	-	-			KKY_CT_SET	<<<		Key Counter: Set Detection1		
	- 3	-	-			+24VCNT	P		+24VCNT		
- 4	CN133 - 1	Brown						Key Counter: ON			
D2025340 (Mainframe)	CN122 - 1	CN1 - 2	Orange		BCU	CN122	1 +24VS	P	Interlock Switch	Interlock Switch	BCU - Interlock Switch Interlock Switch - Interlock Switch
CN1 - 1	CN2 - 2					-	-	-	-		
CN2 - 1	CN122 - 2										BCU - Interlock Switch
D2025351 (Mainframe)	T3	T7	Red		HVP	T	2 +24VL	P	Interlock Switch	+24V	DC High Voltage
	T1	T5					1 HVP: T	-	Transfer Roller	Tranfer	
	T2	T6					1 HVP: C	-	Charge Roller	Charge	
	T4	T8				1 HVP: B	-	Development Roller	Development		
D2025362 (Mainframe)	CN902 - 1	CN1 - 1	White	PSU	CN902	1 HT2-N	P	Fusing Unit (Fusing Heater/Lamp)	Fusing Heater/Lamp: Sub: N		
	- 2	- 2				2 HT1-N	P		Fusing Heater/Lamp: Main: N		
	- 3	- 3	Black			3 HT1,2-L	P		Fusing Heater/Lamp: L		

D197/D198/D199/D200/D201/D202 Harness Pin Assignment (Mainframe)

Harness Information				From/To Information						Note
Part Number	Start	End	Color	From	Pin No.	Logical Signal Name	I/O	To	Signal Name	
D2025374 (Mainframe)	CN1 - 1	CN2 - 50	FFC	BCU	CN106	1 FB FFC IPU	<<<	IPU	FFC Connection Detection	
	- 2	- 49			2	GND	G		GND	
	- 3	- 48			3	BREIT_CS_N_O	-		BREIT Chip Selection	
	- 4	- 47			4	ICIB_CS_N_O	-		C1: ICIB Chip Selection	
	- 5	- 46			5	ANDER_CS_N_O	-		C1: ADENR Chip Selection	
	- 6	- 45			6	IPU_A(17)	-		IPU Address Bus 17	
	- 7	- 44			7	IPU_A(16)	-		IPU Address Bus 16	
	- 8	- 43			8	IPU_A(15)	-		IPU Address Bus 15	
	- 9	- 42			9	IPU_A(14)	-		IPU Address Bus 14	
	- 10	- 41			10	IPU_A(13)	-		IPU Address Bus 13	
	- 11	- 40			11	IPU_A(12)	-		IPU Address Bus 12	
	- 12	- 39			12	IPU_A(11)	-		IPU Address Bus 11	
	- 13	- 38			13	IPU_A(10)	-		IPU Address Bus 10	
	- 14	- 37			14	GND	G		GND	
	- 15	- 36			15	IPU_A(9)	-		IPU Address Bus 9	
	- 16	- 35			16	IPU_A(8)	-		IPU Address Bus 8	
	- 17	- 34			17	IPU_A(7)	-		IPU Address Bus 7	
	- 18	- 33			18	IPU_A(6)	-		IPU Address Bus 6	
	- 19	- 32			19	IPU_A(5)	-		IPU Address Bus 5	
	- 20	- 31			20	IPU_A(4)	-		IPU Address Bus 4	
	- 21	- 30			21	IPU_A(3)	-		IPU Address Bus 3	
	- 22	- 29			22	IPU_A(2)	-		IPU Address Bus 2	
	- 23	- 28			23	IPU_A(1)	-		IPU Address Bus 1	
	- 24	- 27			24	GND	G		GND	
	- 25	- 26			25	IPU_D(15)	B		IPU Data Bus 15	
	- 26	- 25			26	IPU_D(14)	B		IPU Data Bus 14	
	- 27	- 24			27	IPU_D(13)	B		IPU Data Bus 13	
	- 28	- 23			28	IPU_D(12)	B		IPU Data Bus 12	
	- 29	- 22			29	IPU_D(11)	B		IPU Data Bus 11	
	- 30	- 21			30	IPU_D(10)	B		IPU Data Bus 10	
	- 31	- 20			31	IPU_D(9)	B		IPU Data Bus 9	
	- 32	- 19			32	IPU_D(8)	B		IPU Data Bus 8	
	- 33	- 18			33	GND	G		GND	
	- 34	- 17			34	IPU_D(7)	B		IPU Data Bus 7	
	- 35	- 16			35	IPU_D(6)	B		IPU Data Bus 6	
	- 36	- 15			36	IPU_D(5)	B		IPU Data Bus 5	
	- 37	- 14			37	IPU_D(4)	B		IPU Data Bus 4	
	- 38	- 13			38	IPU_D(3)	B		IPU Data Bus 3	
	- 39	- 12			39	IPU_D(2)	B		IPU Data Bus 2	
	- 40	- 11			40	IPU_D(1)	B		IPU Data Bus 1	
	- 41	- 10			41	IPU_D(0)	B		IPU Data Bus 0	
	- 42	- 9			42	GND	G		GND	
	- 43	- 8			43	IPU_WR_N	-		IPU Write	
	- 44	- 7			44	IPU_RD_N	-		IPU Read	
	- 45	- 6			45	IPU_INT_N	<<<		IPU Interrupt	
	- 46	- 5			46	M2P_RST_N	-		Memory to plotter: Reset	
	- 47	- 4			47	S2M_RST_N	-		Scanner to Memory: Reset	
	- 48	- 3			48	IPU_WAKE	<<<		IPU Launch Detection	
	- 49	- 2			49	ANDER_SET_N_I	<<<		ANDER Set Detection	
	- 50	- 1			50	FFC IPU	-		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	Yellow	BCU	CN121	1 +24V	P	DHB	+24V	
	- 2	- 2			2	PSU_HURY_P	-		Defumidifier Relay: PWM	
	- 3	- 1			3	GND	G		GND	
D2025397 (Mainframe)	CN904 - 1	CN920 - 3	White	PSU	CN904	1 AC-OUT/N	P		AC Relay: N	
	- 2	- 2			2	N.C.	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	N.C.	N	N.C.	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	
D2025399 (Mainframe)	CN922 - 1	CN1 - 2	Blue	DHB	CN922	1 AC_N_DEHUHT3	P	Anti-condensation Heater (Scanner)	Anti-condensation Heater (Scanner): N	
	- 2	CN2 - 2			2	AC_N_DEHUHT2	P	Anti-condensation Heater (PCU)	Anti-condensation Heater (PCU): N	
	- 3	CN1 - 1			3	AC_L_DEHUHT1	P	Anti-condensation Heater (Scanner)	Anti-condensation Heater (Scanner): L	
	- 4	CN2 - 1			4	AC_L_DEHUHT2	P	Anti-condensation Heater (PCU)	Anti-condensation Heater (PCU): L	
D2024695 (Duplex Unit)	CN123 - A1	CN1 - 8	Yellow	BCU	CN123	A1 RDPINMT_ENC-A	<<<	Duplex Entrance Motor	Duplex Entrance Motor: Encorder A	
	- A2	- 7			A2	RDPINMT_ENC-B	<<<		Duplex Entrance Motor: Encorder B	
	- A3	- 6			A3	+5V	P		+5V	
	- 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	D2024695 (Duplex Unit)	GND	From: BCU(CN123) - D2024695 (Duplex Unit) - D2024672 (Duple Unit) - Terminal:
	- A10	- 2			A10	RDPINSN_SNS	<<<	Terminal: Duplex Entrance Sensor	Duplex Entrance Sensor	Electrical Components
	- A11	- 1			A11	+5V	P		+5V	
	- A12	-	-		A12	N.C.	N	N.C.	N.C.	
	- A13	-	-		A13	N.C.	N	N.C.	N.C.	
	- B1	CN3 - 8	Yellow		B1	HDP_MT_ENC-A	<<<	Duplex/Bypass Motor	Duplex/By-pass Motor: Encorder A	
	- B2	- 7			B2	HDP_MT_ENC-B	<<<		Duplex/By-pass Motor: Encorder B	
	- B3	- 6			B3	+5V	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	P		+5V	
	- B12	CN5 - 2			B12	GND	G	Duplex Guide Switch	GND	
	- B13	- 1			B13	RGPOCSN_SW1	<<<		Duplex Guide Switch	
	CN112 - 1	CN6 - 5			CN112	1 +24VS	P	D2022643 (Bypass Unit)	+24VS	From: BCU(CN112) - D2024695(Duplex Unit) - D2022643(Bypass Unit)
	- 2	- 4			2	HHDPUSL_OUT2	-	Terminal:	Bypass Pick-up Solenoid: PWM	- Terminal: Electrical Components
	- 3	- 3			3	GND	G	*Bypass Pick-up Solenoid	GND	
	- 4	- 2			4	HHDPESN_SNS	<<<	*Bypass Paper End Sensor	Bypass Paper End Sensor	
	- 5	- 1			5	+5V	P		+5V	
	- 6	CN7 - 8			6	HHDMLSW_SW2	<<<	D2022645 (Bypass Unit)	Bypass Length Sensor: 2	From: BCU(CN112) - D2024695 (Duplex Unit) - D2022645(Bypass Unit) - Terminal:
	- 7	- 7			7	HHDMLSW_SW1	<<<		Bypass Length Sensor: 1	Electrical Components
	- 8	- 6			8	GND	G	*Bypass Length Sensor	GND	
	- 9	- 5			9	HHDMLSW_SW4	<<<	*Bypass Width Switch (SW)	Bypass Length Sensor: 4	
	- 10	- 4			10	HHDMLSW_SW3	<<<		Bypass Length Sensor: 3	
	- 11	- 3			11	GND	G		GND	
	- 12	- 2			12	HHDSLSN_SNS	<<<		Bypass Width Switch (SW)	
	- 13	- 1			13	+5V	P		+5V	

D197/D198/D199/D200/D201/D202 Harness Pin Assignment (Mainframe)

Harness Information				From/To Information						Note
Part Number	Start	End	Color	From	Pin No.	Logical Signal Name	I/O	To	Signal Name	
D2022643 (Bypass Unit)	CN1 - 1	CN6 - 3	Purple	D2024695 (Duplex Unit)	CN6	5 +24VS	P	Bypass Pickup Solenoid	+24VS	From: BCU(CN112) - D2024695 (Duplex Unit) - D2022643 (Bypass Unit) - Terminal: Electrical Components
	- -	- - 2	-			- N.C.	N		N.C.	
	CN1 - 2	- - 1	Purple			4 HHDPUSL_OUT2	-		Bypass Pickup Solenoid: PWM	
	- 3	- - 3				3 GND	G	Bypass Paper End Sensor	GND	
	- 4	- - 2				2 HHDPESN_SNS	<<<		Bypass Paper End Sensor	
D2022645 (Bypass Unit)	- 5	CN7 - 1				1 +5V	P		+5V	From: BCU(CN112) - D2024695(Duplex Unit) - D2022645(Bypass Unit) - Terminal: Electrical Components
	CN1 - 1	CN6 - 5	Purple		CN7	8 HHDMLSW_SW2	<<<	Bypass Width Sensor (Bypass Width Switch)	Bypass Width Sensor (Bypass Width Switch): 2	
	- 2	- - 4				7 HHDMLSW_SW1	<<<		Bypass Width Sensor (Bypass Width Switch): 1	
	- 3	- - 3				6 GND	G		GND	
	- 4	- - 2				5 HHDMLSW_SW4	<<<		Bypass Width Sensor (Bypass Width Switch): 4	
	- 5	- - 1				4 HHDMLSW_SW3	<<<		Bypass Width Sensor (Bypass Width Switch): 3	
	- 6	CN7 - 3				3 GND	G	Bypass Length Sensor	GND	
	- 7	- 2				2 HHDSLNS_SNS	<<<		Bypass Length Sensor	
	- 8	- 1				1 +5V	P		+5V	
	T1	T2				- Earth	-	Earth	Earth	
	T2	T4				- Earth	-	Earth	Earth	
D2024672 (Duplex Unit)	CN1 - 1	CN2 - 3	Yellow	D2024695 (Duplex Unit)	CN2	3 GND	G	D2024695 (Duplex Unit)	GND	From: BCU(CN123) - D2024695(Duplex Unit) - D2024672 (Duplex Unit) - Terminal: Electrical Components
	- 2	- - 2				2 RDPINSN_SNS	<<<		Duplex Entrance Sensor	
	- 3	- - 1				1 +5V	P		+5V	
D2022708 (1st/2nd Paper Feed Unit)	CN1 - 1	CN6 - 2	Purple	D2025321 D1995321 (Mainframe)	CN1 (1st Paper Feed Unit) CN5 (2nd Paper Feed Unit)	1 +24VS	P	Terminal: Duplex Entrance Sensor D1492708 (Paper Feed Unit)	N.C.	From: BCU(CN110/111) - 2025321/D1995321(Mainframe) - D2022708(1st/2nd Paper Feed Unit) - Terminal: Electrical Components
	- 2	- - 1				2 CF1PUSL_OUT2	-		N.C.	
	- 3	CN2 - 3				3 GND	G		GND	
	- 4	- - 2				4 CF1SN_SNS	<<<		1st/2nd Paper Feed Sensor	
	- 5	- - 1				5 +5V	P		+5V	
	- 6	CN3 - 3				6 GND	G		GND	
	- 7	- - 2				7 CH1SN_SNS	<<<		1st/2nd Vertical Transport Sensor	
	- 8	- - 1				8 +5V	P		+5V	
	- 9	CN4 - 3				9 GND	G		GND	
	- 10	- - 2				10 CT1PESN_SNS	<<<		1st/2nd Paper End Sensor	
	- 11	- - 1				11 +5V	P		+5V	
	- 12	CN5 - 3				12 GND	G		GND	
	- 13	- - 2				13 CT1ULSN_SNS	<<<		1st/2nd Paper Feed Tray Limit Sensor	
	- 14	- - 1				14 +5V	P		+5V	
	CN1 - 1	CN2 - 2	Yellow		CN9	1 +24VS	P	Paper Exit Switching Solenoid	+24VS	From: BCU(CN124, CN125) - D2025321/D1995321(Mainframe) - D2024499(Paper Exit Unit) - Terminal: Electrical Components
D2024499 (Paper Exit Unit)	- 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	P		+5V	
	- 6	CN4 - 3				6 GND	G	Paper Exit Sensor	GND	
	- 7	- - 2				7 EEX_SN_SNS	<<<		Paper Exit Sensor	
	- 8	- - 1				8 +5V	P		+5V	
	- 9	CN5 - 3				9 GND	G	Paper Exit Full Sensor	GND	
	- 10	- - 2				10 EEXFLSN_SNS	<<<		Paper Exit Full Sensor	
	- 11	- - 1				11 +5V	P		+5V	
	- 12	CN7 - 3				12 GND	G	Fusing Exit Sensor	GND	
	- 13	- - 2				13 FFUOUSN_SNS	<<<		Fusing Exit Sensor	
	- 14	- - 1				14 +5V	P		+5V	
	- 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	D2022556 (Registration)	CN12	1 GND	G	D2022556 (Registration)	GND	From: BCU(CN115) - D2025321/D1995321(Mainframe) - D2022556 (Registration) - Terminal: Registration Sensor
	- 2	- - 2				2 CRG_SN_SNS	<<<		Registration Sensor	
	- 3	- - 1				3 +5V	P		Power: +5V	
D2026237 (Transfer Unit)	CN1 - 1	CN2 - 4	Purple	D2025301 (Mainframe)	CN16	1 PDRPNNSN_V-C	<<<	ID Sensor	ID Sensor	From: BCU(CN115) - D2025321/D1995321 (Mainframe) - D2026237(Transfer Unit) - Terminal: Electrical Components
	- 2	- - 3				2 PDRPNNSN_L-C	-		ID Sensor: PWM	
	- 3	- - 2				3 GND	G		GND	
	- 4	CN3 - 1				4 +3.3V	P	Transfer Unit Open/Close LED	+3.3V	
	- 5	- - 2				5 TTSOCLE_LED-K	-		Transfer Unit Open/Close LED: OUT	
	- 6	- - 1				6 +5V	P		+5V	
	- 7	CN4 - 3				7 GND	G	Fusing Entrance Sensor	GND	
	- 8	- - 2				8 FFUINSN_SNS	<<<		Fusing Entrance Sensor	
	- 9	- - 1				9 +5V	P		+5V	
D2023172 (PCU)	CN16 - 1	CN1 - 6	Purple	D2025301 (Mainframe)	CN11	1 GND	G	TD Sensor	GND	From: BCU(CN118) - D2025301 (Mainframe) - D2023172 (PCDU) - Terminal: 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	-		HST Sensor: 5V	
	- 5	- - 2				5 NTNODSN_SDA	<->		TD Sensor: TD Sensor: SEL	
	- 6	- - 1				6 NTNODSN_SCL	-		HST Sensor: HST Sensor: PWM	

D197/D198/D199/D200/D201/D202 Harness Pin Assignment (Scanner-related Part)

Harness Information				From/To Information							Note	
Part Number	Start	End	Color	From	Pin No.	Logical Signal Name	I/O	To	Signal Name			
D2025200	CN300	- 1	CN530	- A1	SBU	CN300	1	GND	G	IPU	GND	
		- 2		- B10		2	GND	G	GND			
		- 3		- A2		3	F TA-	-	LVDS Output Data A-			
		- 4		- B9		4	F TA+	-	LVDS Output Data A+			
		- 5		- A3		5	F TB-	-	LVDS Output Data B-			
		- 6		- B8		6	F TB+	-	LVDS Output Data B+			
		- 7		- A4		7	F TC-	-	LVDS Output Data C-			
		- 8		- B7		8	F TC+	-	LVDS Output Data C+			
		- 9		- A5		9	F LVCK-	-	LVDS Transfer Clock-			
		- 10		- B6		10	F LVCK+	-	LVDS Transfer Clock+			
		- 11		- A6		11	F TD-	-	LVDS Output Data D-			
		- 12		- B5		12	F TD+	-	LVDS Output Data D+			
		- 13		- A7		13	F TE-	-	LVDS Output Data E-			
		- 14		- B4		14	F TE+	-	LVDS Output Data E+			
		- 15		- A8		15	SFGATE N	<<<	Original Sub-scanning Area Signal			
		- 16		- B3		16	SHGATE N	<<<	White Board Area Signal			
		- 17		- A9		17	SYDI SBU	-	SBUSync Serial RX			
		- 18		- B2		18	SYCS SBU N	<<<	SBUSync SerialCS			
		- 19		- A10		19	SYDO SBU	<<<	SBUSync Serial TX			
		- 20		- B1		20	SYCLK SBU	<<<	SBUSync SerialClock			
D2025202	CN318	- 1	CN1	- 3	SIO	CN318	1	GND	G	Scanner HP Sensor	GND	
		- 2		- 2		2	HPS SNES	<<<	Home Position Signal	H: Detects home position		
		- 3		- 1		3	+5.9V	P	+5.9V			
		- 4	CN2	- 3		4	GND	G	DF Position Sensor	GND		
		- 5		- 2		5	XAKS	<<<	DF Position Sensor	L: Open; H: Close		
		- 6		- 1		6	5VE AKS	P	5VE	Power Source for Sensor		
D2025204	CN314	- 1	CN1	- 1	SIO	CN314	1	B	-	Scanner Motor	Phase B	
		- 2		- 2			-	-	B/ Phase			
	CN314	- 2		- 3		2	B/	-				
	CN314	- 3		- 4		3	A/	-	A/ Phase			
D2025205	CN311	- A1	CN531	- A15	SIO	CN311	4	A	-		Phase A	
		- A2		- A14		A1	HPS	-	IPU	Home Position Sensor Signal	H: Detects home position	
		- A3		- A13		A2	FB_CD2	<<<	Scanner Motor Drive Current Switching Signal 2			
		- A4		- A12		A3	FB_CD1	<<<	Scanner Motor Drive Current Switching Signal 1			
		- A5		- A11		A4	FB_CD0	<<<	Scanner Motor Drive Current Switching Signal 0			
		- A6		- A10		A5	FB_RST	<<<	Scanner Motor Reset Signal	H: Reset; L: Normal Operation		
		- A7		- A9		A6	FB_DIR	<<<	Scanner Motor Rotating Direction Switching Signal			
		- A8		- A8		A7	FB_CLK	<<<	Scanner Motor Clock Signal			
		- A9		- A7		A8	FB_M1	<<<	Scanner Motor Excitation Setting Terminal 2			
		- A10		- A6		A9	FB_M0	<<<	Scanner Motor Excitation Setting Terminal 1			
		- A11		- A5		A10	FB_EN N	<<<	Scanner Motor EN Signal	L: Excitation On		
		- A12		- A4		A11	5V_ADF	P	5V Power			
		- A13		- A3		A12	DFGATE N	-	ADF Gate Signal	L: Reading		
		- A14		- A2		A13	ADF_TXD	<<<	ADF - Mainframe UART TX	Mainframe - ADF		
		- A15		- A1		A14	ADF_RXD	-	ADF - Mainframe UART RX	Mainframe <<< ADF		
		- B1		- B15		A15	ADF_POW_ON N	<<<	ADF Power ON Signal			
		- B2		- B14		B1	5VE AKS	P	5VE Power	Power Source for Sensor		
		- B3		- B13		B2	AKS N	-	DF Position Sensor Signal	L: Open; H: Close		
		- B4		- B12		B3	5VE_DOC	P	5VE Power	Power Source for Sensor		
		- B5		- B11		B4	DOCSET N	-	ADF Original Set Detection			
	- B6		- B10	B5	APS1	-	Original Size Sensor (APS) 1	H: Detects Original				
	- B7		- B9	B6	APS2	-	Original Size Sensor (APS) 2					
	- B8		- B8	B7	APS3	-	Original Size Sensor (APS) 3	Not Used. Fixed L				
	- B9		- B7	B8	APS4	-	Original Size Sensor (APS) 4	Not Used. Fixed L				
	- B10		- B6	B9	APS5	-	Original Size Sensor (APS) 5	Not Used. Fixed L				
	- B11		- B5	B10	APS_ON N	<<<	Original Size Sensor (APS) ON Signal	L: APS Drive				
	- B12		- B4	B11	GND	G	GND					
	- B13		- B3	B12	LED_ON N	<<<	LED Light-up Signal	L: Light Up				
	- B14		- B2	B13	LED_ERR	-	LED Error Signal	H: Fault Detection				
	- B15		- B1	B14	GND	G	GND					
				B15	SCN_POW_ON N	<<<	Scanner Power On Signal	L: Scanner Power On				
D6845500 (DF3090) D6835620 (DF3080)	CN312	- 1	CN100	- 16	SIO	CN312	1	GND_ADF	G	ADF	GND	
		- 2		- 15		2	GND_ADF	G	GND			
		- 3		- 14		3	GND_ADF	G	GND			
		- 4		- 13		4	GND_ADF	G	GND			
		- 5		- 12		5	24V_ADF	P	24V Power			
		- 6		- 11		6	24V_ADF	P	24V Power			
		- 7		- 10		7	24V_ADF	P	24V Power			
		- 8		- 9		8	24V_ADF	P	24V Power			
		- 9		- 8		9	5VE_DOC	P	5VE Power		Power Source for Sensor	
		- 10		- 7		10	ADF_TXD	-	ADF - Mainframe UART TX		ADF - Mainframe	
		- 11		- 6		11	XDOCSET	<<<	ADF Original Set Detection		L: Detects Original	
		- 12		- 5		12	ADF_RXD	<<<	ADF - Mainframe UART RX		Mainframe <<< ADF	
		- 13		- 4		13	DFGATE_N	<<<	ADF Gate Signal		L: Scanning	
		- 14		- 3		14	5V_ADF	P	5V Power			
		- 15		- 2		15	GND_ADF	G	GND			
		- 16		- 1		16	ADF_POW_ON_N	-	ADF Power ON Signal			
D2025206	CN313	- 1	CN2	- 3	SIO	CN313	1	GND	G	APS2	GND	
		- 2		- 2		2	ASP2	<<<	APS2		H: Detects Original	
		- 3		- 1		3	+3.4VAPS	P	3.4V			
		- 4	CN1	- 3		4	GND	G	GND			
		- 5		- 2		5	APS1	<<<	APS1		H: Detects Original	
		- 6		- 1	6	+3.4VAPS	P	3.4V				
		- 1	CN301	- 13	SIO	CN315	1	LED_PWM	<<<	SBU	LED Power Source PWM	H: Active
		- 2		- 12		2	GND	G	GND			
		- 3		- 11		3	GND	G	GND			
		- 4		- 10		4	+3.3V	P	3.3V Power			
		- 5		- 9		5	+3.3V	P	3.3V Power			
		- 6		- 8		6	+3.3V	P	3.3V Power			
		- 7		- 7		7	GND	G	GND			
	- 8		- 6	8		GND	G	GND				
	- 9		- 5	9	+5.9V	P	5.9V Power					
	- 10		- 4	10	+5.9V	P	5.9V Power					
	- 11		- 3	11	GND	G	GND					
	- 12		- 2	12	+10V	P	10V Power					
	- 13		- 1	13	GND	G	GND					
D2025207	CN317	- 1	CN350	- 10	SIO	CN317	1	GND	G	LED-B	GND	
		- 2		- 9		2	LED6	<<<	LED Drive 6			
		- 3		- 8		3	LED5	<<<	LED Drive 5			
		- 4		- 7		4	LED4	<<<	LED Drive 4			
		- 5		- 6		5	V_LED	P	LED Drive Power			
		- 6		- 5		6	V_LED	P	LED Drive Power			
		- 7		- 4		7	LED3	<<<	LED Drive 3			
		- 8		- 3		8	LED2	<<<	LED Drive 2			
		- 9		- 2		9	LED1	<<<	LED Drive 1			
		- 10		- 1		10	GND	G	GND			

D197/D198/D199/D200/D201/D202 Harness Pin Assignment (Laser-related Part)

Harness Information				From/To Information						Note
Part Number	Start	End	Color	From	Pin No.	Logical Signal Name	I/O	To	Signal Name	
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 DROOPEN	<<<		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	Yellow		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 DROOPEN	<<<		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	Yellow		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	

D197/D198/D199/D200/D201/D202 Harness Pin Assignment (Operation Panel)

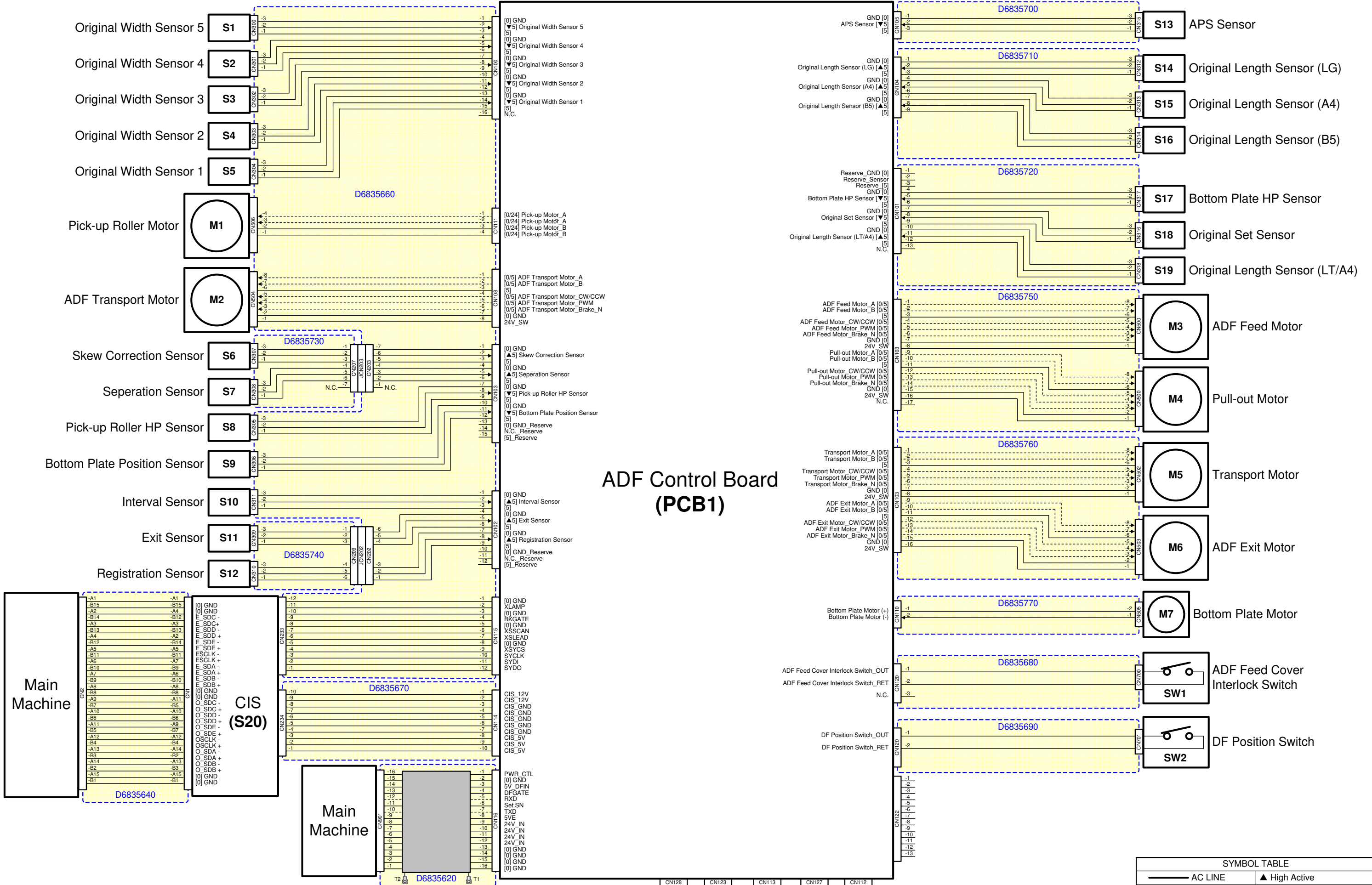
Harness Information				From/To Information						Note
Part Number	Start	End	Color	From	Pin No.	Logical Signal Name	I/O	To	Signal Name	
D2025221	USB A - 1	USB B - 1	Black	IPU	CN533	1 +5VX_LPS	P	Operation Panel	5V	
	- 2	- 2				2 USB0D-	I/O		USB Data Signal	
	- 3	- 3				3 USB0D+	I/O		USB Data Signal	
	- 4	- 4				4				
	- 5	- 5				5				
D2025222	CN2 - 1	CN1 - 15	Purple	IPU	CN532	1 GND	G		GND	
	- 2	- 14				2 GND	G		GND	
	- 3	- 13				3 GND	G		GND	
	- 4	- 12				4 SDMODE_N	-		SDMODE_N	
	- 5	- 11				5 LDET_IN_N_OPU	<<<		LDET_IN_N_OPU	
	- 6	- 10				6 ENG_ENABLE_N_OPU	-		ENG_ENABLE_N_OPU	
	- 7	- 9				7 PONOPE_N_OPU	-		PONOPE_N_OPU	
	- 8	- 8				8 ECO_SW_N	<<<		ECO_SW_N	
	- 9	- 7				9 POKUSB	-		POKUSB	
	- 10	- 6				10 OPE_CTLERR_N_OPU	-		OPE_CTLERR_N_OPU	
	- 11	- 5				11 OPE_LED_N	-		OPE_LED_N	
	- 12	- 4				12 +5VX_LPS	P		5V	
	- 13	- 3				13 +5VX_LPS	P		5V	
	- 14	- 2				14 +5VX_LPS	P		5V	
	- 15	- 1				15 +5VX_LPS	P		5V	

D197/D198/D199/D200/D201/D202 Harness Pin Assignment (Appendix)

No	Part Number	NA		EU		Note
		D197 D198 D199	D200 D201 D202	D197 D198 D199	D200 D201 D202	
1	D2025301	Common				
2	D2025302					
3	D2025303					
4	D2025304					
5	D2025305					
6	D2025306					
7	D2025307					
8	D2025320	-	Yes	-	Yes	For models that has paper exit motor
9	D1995320	Yes	-	Yes	-	For models that has no paper exit motor
10	D2025321	-	Yes	-	Yes	Detects product destination
11	D1995321	Yes	-	Yes	-	Detects product destination
12	D2025322	-	Yes	-	Yes	For models that has PSU cooling fan
13	D1995322	Yes	-	Yes	-	For models that has no PSU cooling fan
14	D2025333					For preventing wrong insert
15	D2025340					
16	D2025351					
17	D2025362					
18	D2025373					2 piece FFC. This is a sub-part of D2025374.
19	D2025374					
20	D2025385					
21	D2025396	Option				
22	D2025397					
23	D2025398					
24	D2025399					

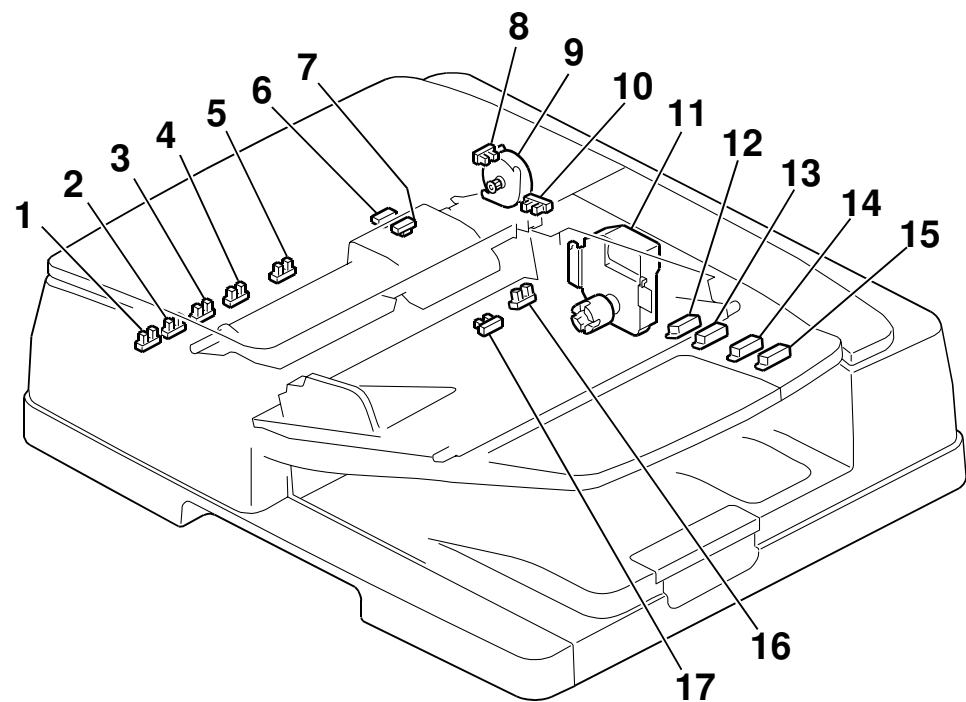
*The cells with the same color indicate that the part cannot be used for the other models/destinations.

D683 POINT TO POINT DIAGRAM

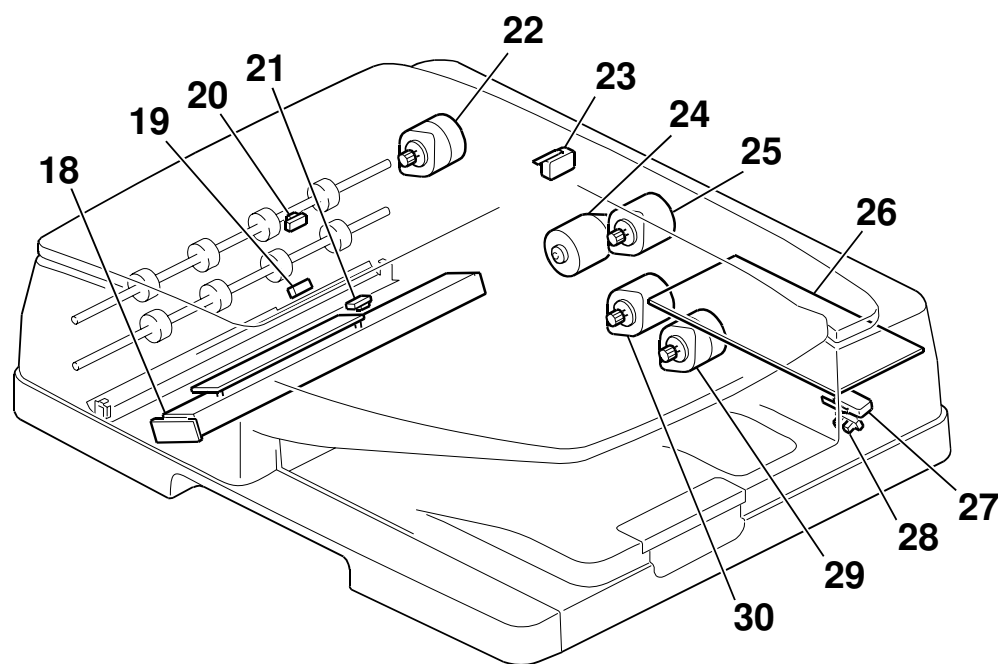


SYMBOL TABLE	
AC LINE	▲ High Active
DC LINE	▼ Low Active
Pulse	[] Voltage
Signal Direction	

D683 ELECTRICAL COMPONENT LAYOUT



d1359901.wmf



d1359902.wmf

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

D197 Revision History

[illegible]