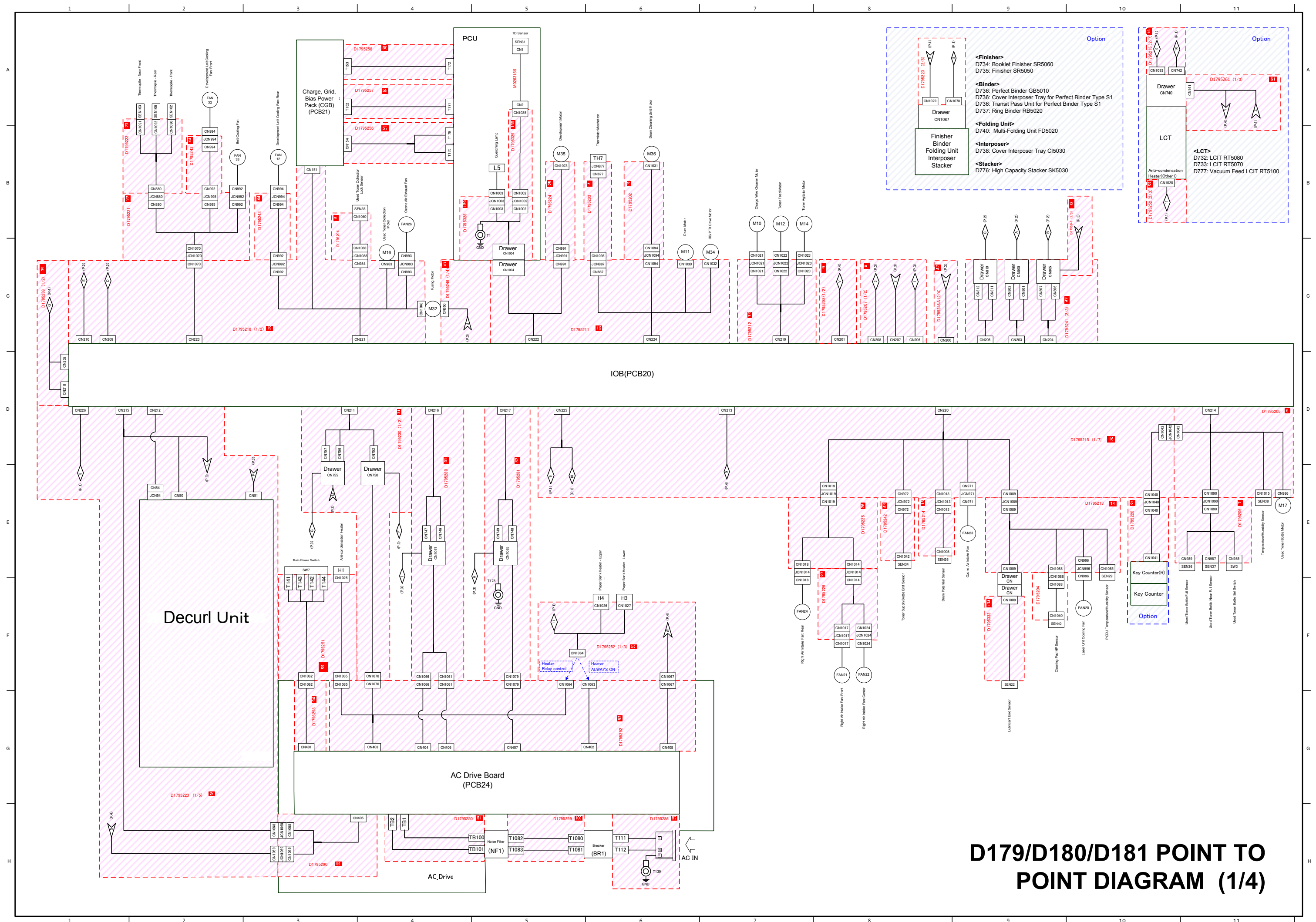
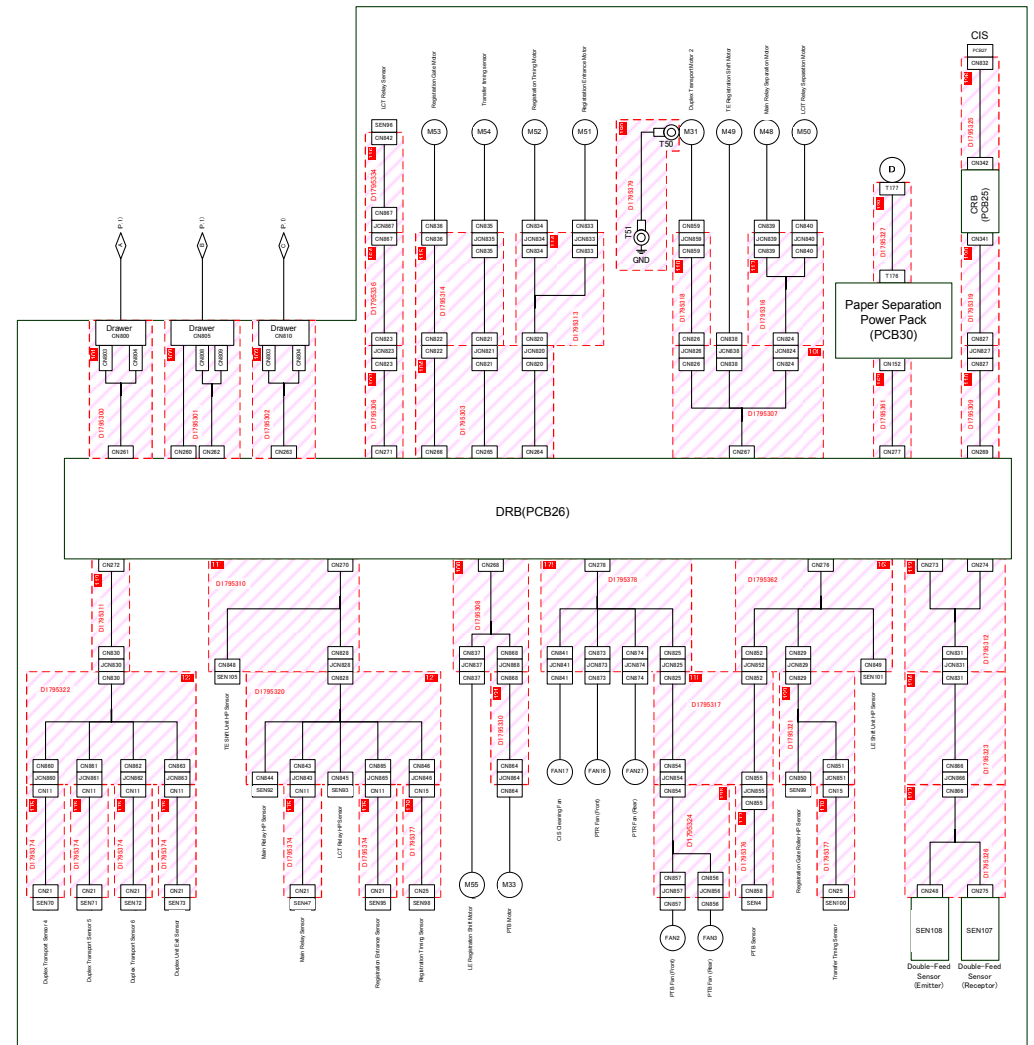
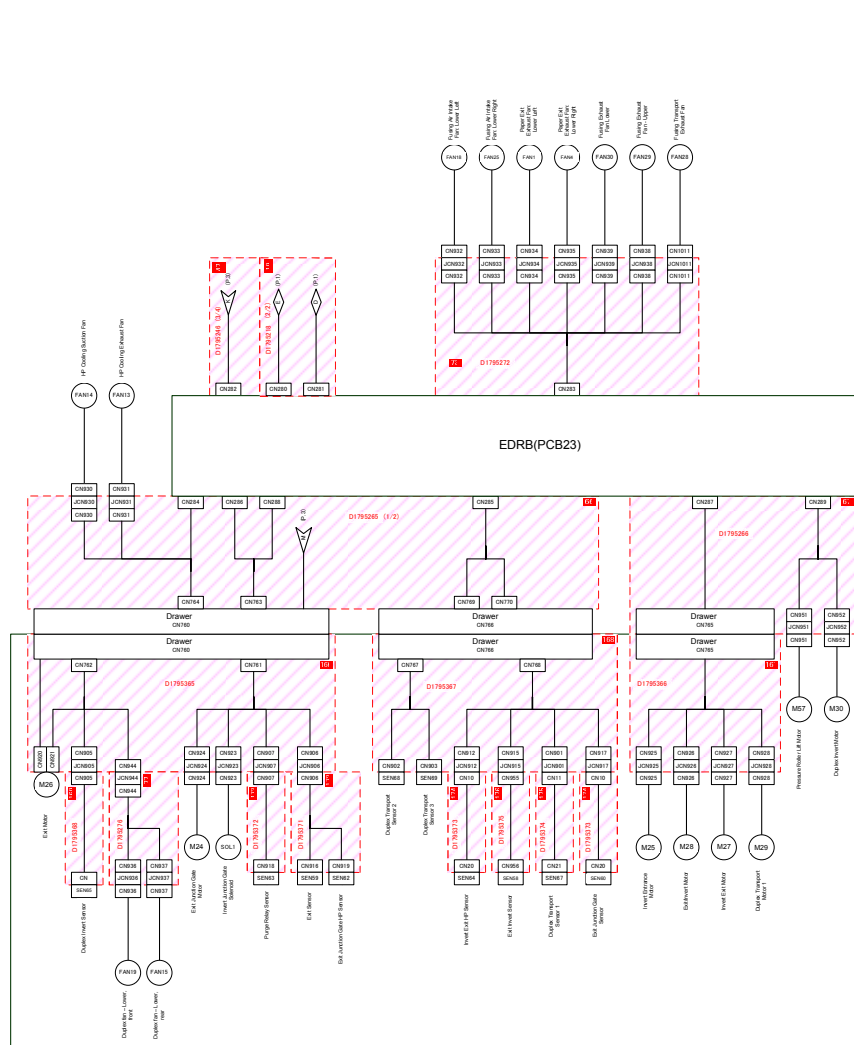
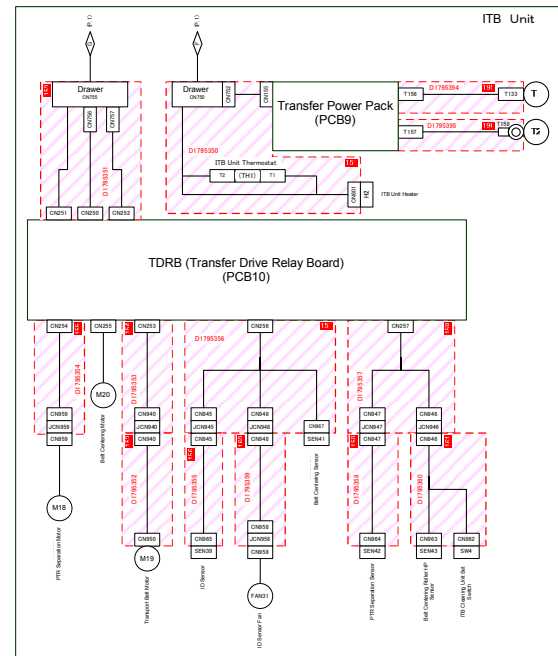






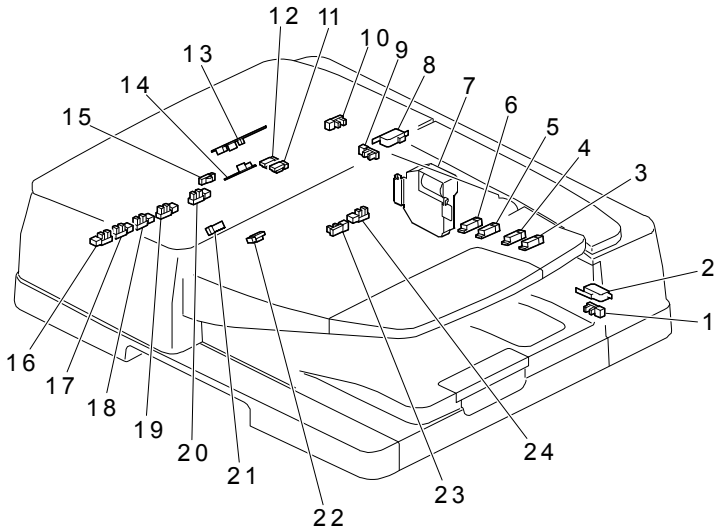
**D179/D180/D181 POINT TO
POINT DIAGRAM (2/4)**





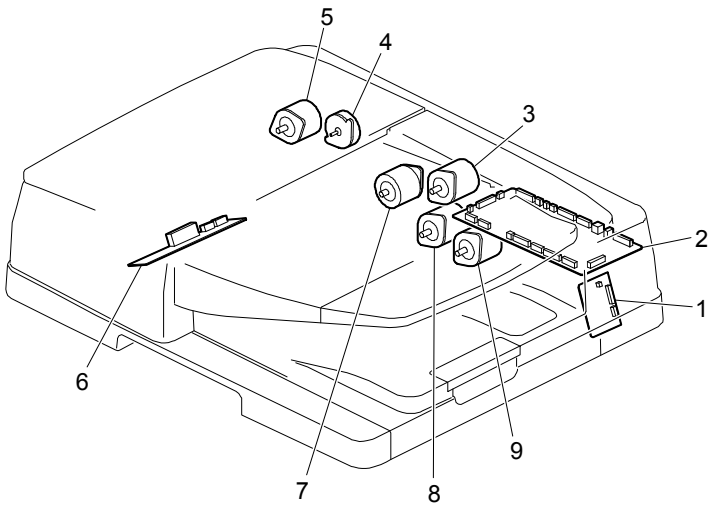
Harness No	Connector (FROM)			Signal Information				Connector (TO)		
	To Connector	No	Pin No	Signal Name	Direction	L	H	No	Pin No	To Connector
601	Status Light	CN1	1	24V	Power			6	CN2	OPU
			2	XPATLITE_B				5		
			3	XPATLITE_Y				4		
			4	XPATLITE_R				3		
			5	XBEEP_ON				2		
			6	GND	Ground			1		
			7	NC				-		
602	ADF	CN116	1	PWIR_CNTL				16	CN901	CNB
			2	GND	Ground			15		
			3	5V_DFIN				14		
			4	DFGATE				13		
			5	RXD(Main Machine-->DF)				12		
			6	SETSN				11		
			7	TXD(DF-->Main Machine)				10		
			8	5VE	Power			9		
			9	24V_IN	Power			8		
			10	24V_IN	Power			7		
			11	24V_IN	Power			6		
			12	24V_IN	Power			5		
			13	GND	Ground			4		
			14	GND	Ground			3		
			15	GND	Ground			2		
			16	GND	Ground			1		
	Interface cable	Shield	-	F.G(DF)	Ground			-	T1	F.G(DF)
			-	F.G(Main Machine)	Ground			-	T2	F.G(Main Machine)
603	ADF	CN1	A1	GND	Ground			A1	CN2	IPU
			B15	GND	Ground			B15		
			A4	E_SDC-				A4		
			B12	E_SDC+				B12		
			A3	E_SDD-				A3		
			B13	E_SDD+				B13		
			A2	E_SDE-				A2		
			B14	E_SDE+				B14		
			A5	ESCLK-				A5		
			B11	ESCLK+				B11		
			A7	E_SDA-				A6		
			B9	E_SDA+				B10		
			A6	E_SDB-				A7		
			B10	E_SDB+				B9		
			A8	GND	Ground			A8		
			B8	GND	Ground			B8		
			A11	O_SDC-				A9		
			B5	O_SDC+				B7		
			A10	O_SDD-				A10		
			B6	O_SDD+				B6		
			A9	O_SDE-				A11		
			B7	O_SDE+				B5		
			A12	OSCLK-				A12		
			B4	OSCLK+				B4		
			A14	O_SDA-				A13		
			B2	O_SDA+				B3		
			A13	O_SDB-				A14		
			B3	O_SDB+				B2		
			A15	GND	Ground			A15		
			B1	GND	Ground			B1		
604	IPU	CN538	1	5VE	Power			6	CN1	MKB
			2	5VE	Power			5		
			3	TXD_CTL				4		
			4	RXD_CTL				3		
			5	GND	Ground			2		
			6	GND	Ground			1		

D179/D180/D181 ELECTRICAL COMPONENT LAYOUT



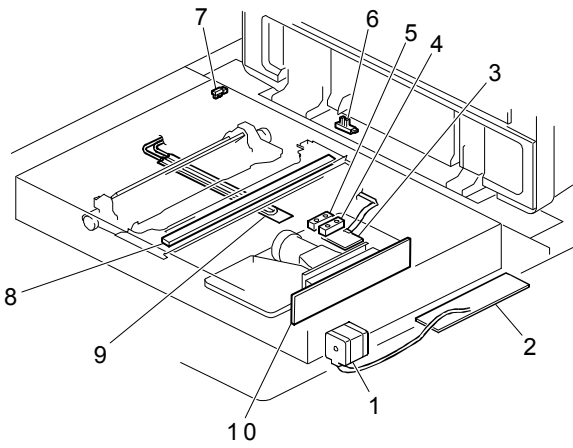
d1797901

Fig1



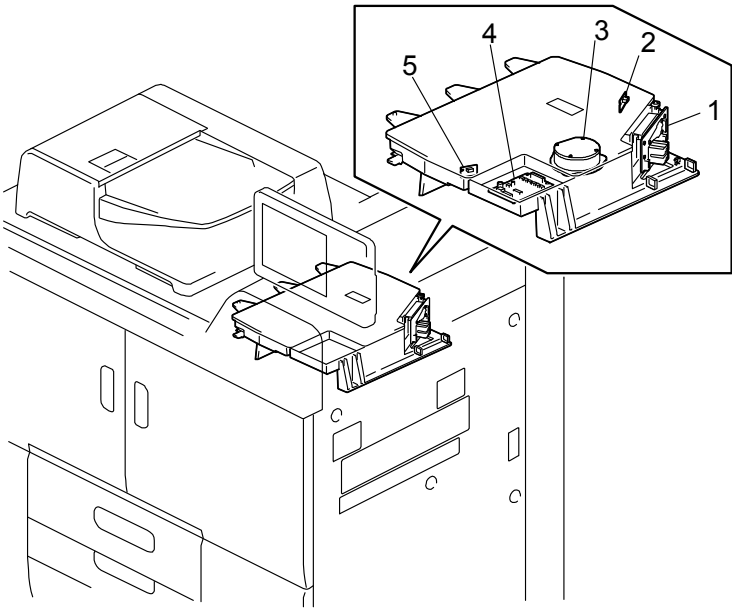
d1797902

Fig2



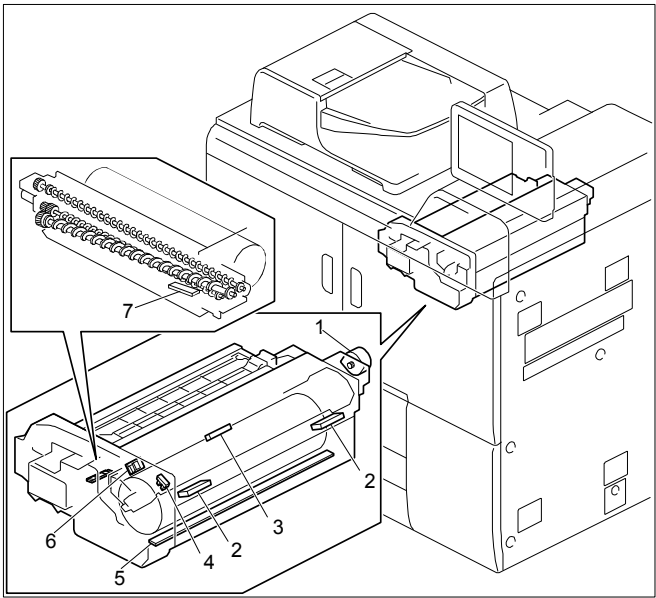
d1797903

Fig3



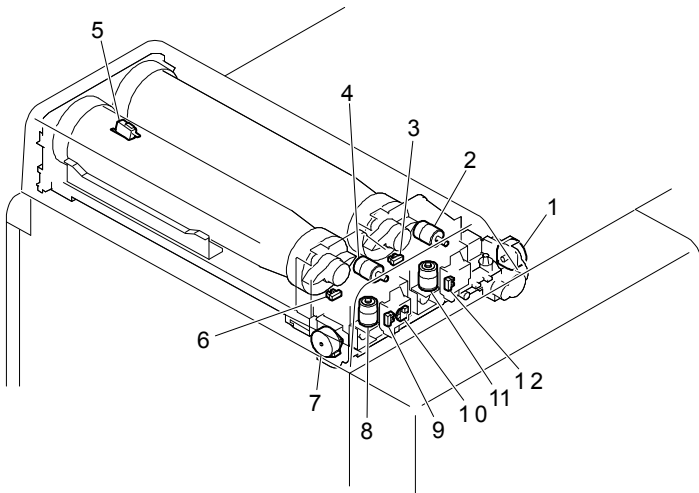
d1797904

Fig4



d1797905

Fig5



d1797906

Fig6

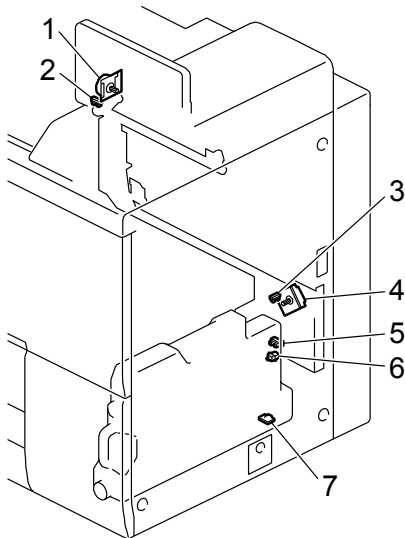
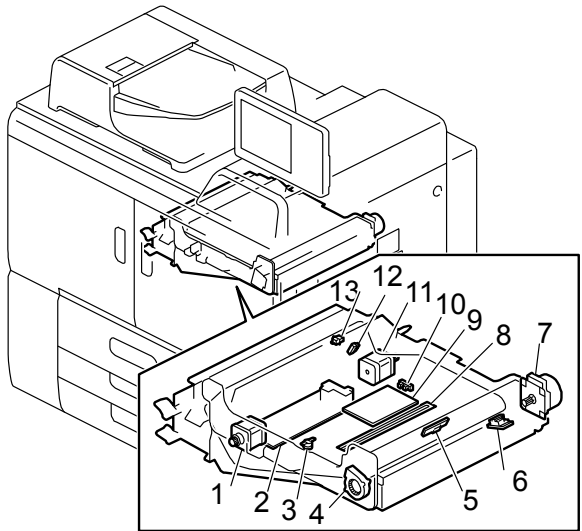
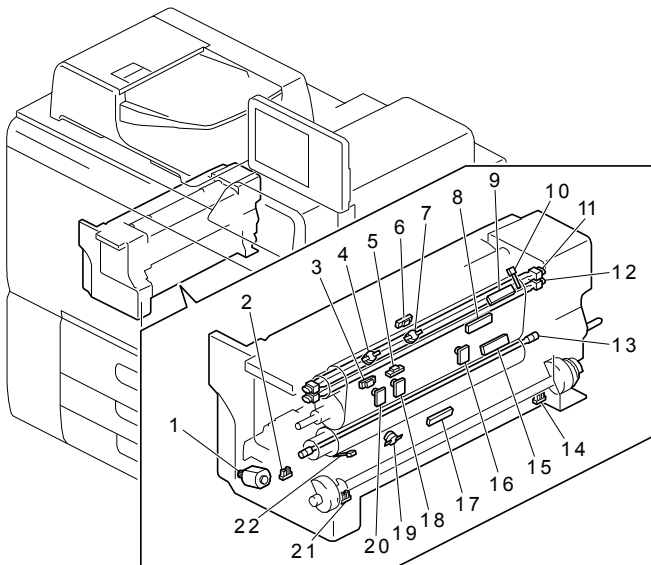


Fig7



d1797908

Fig8



d1797909

Fig9

D179/D180/D181 ELECTRICAL COMPONENT LAYOUT

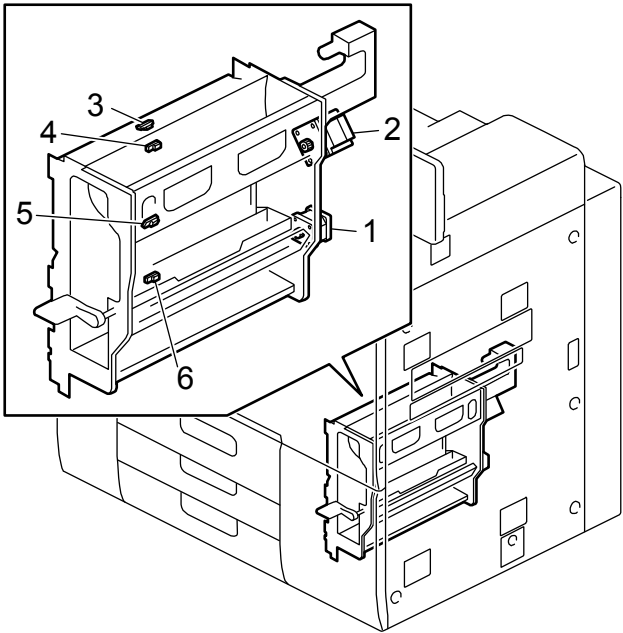


Fig10

d1797910

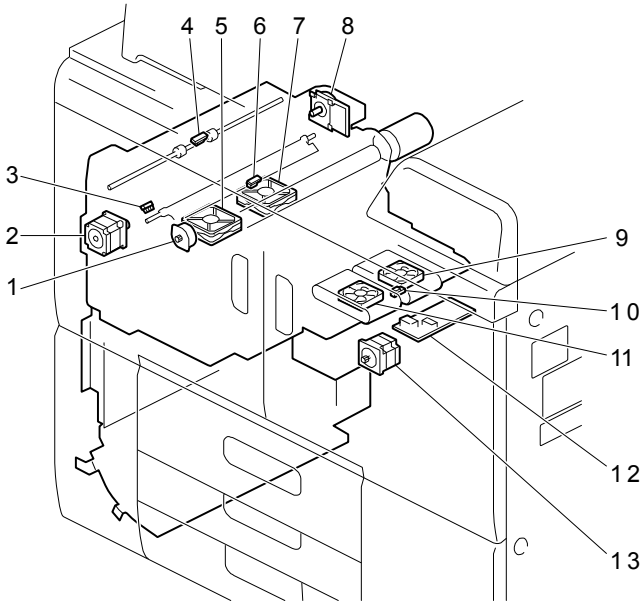


Fig11

d1797911

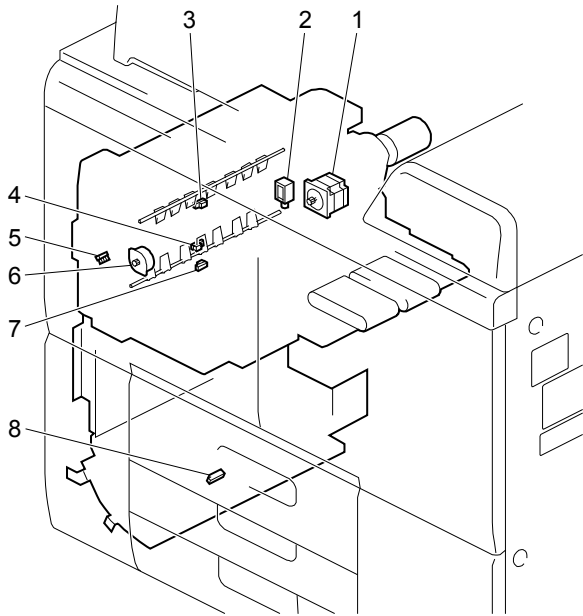


Fig12

D1797912_2

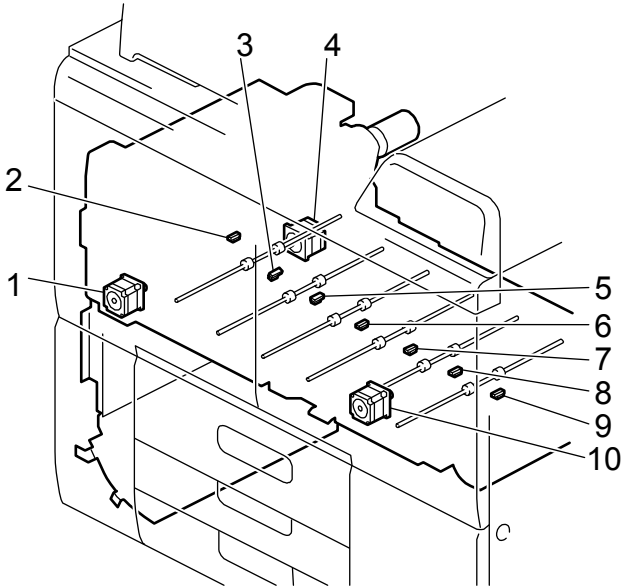


Fig13

d1797913

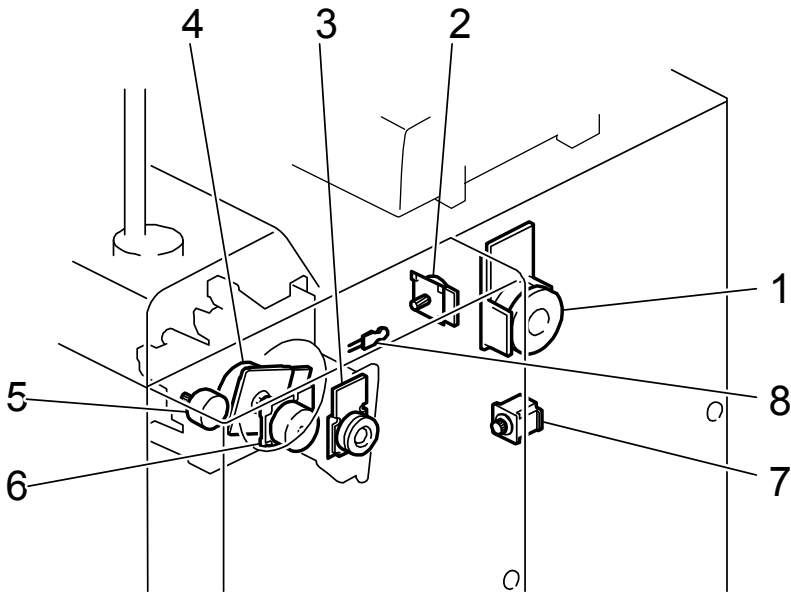


Fig14

M263c9011_2

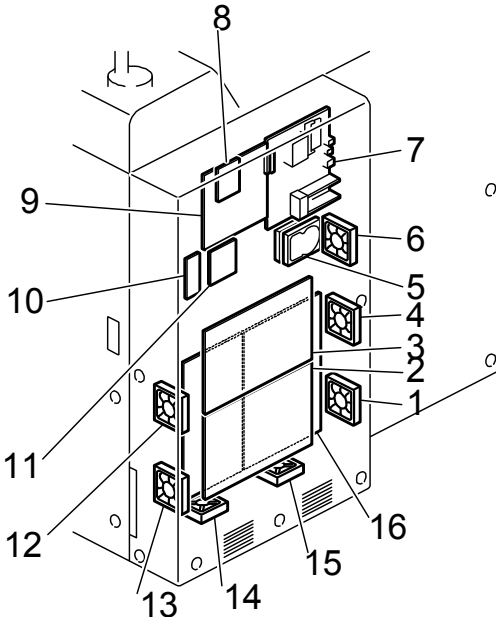


Fig15

d1797915

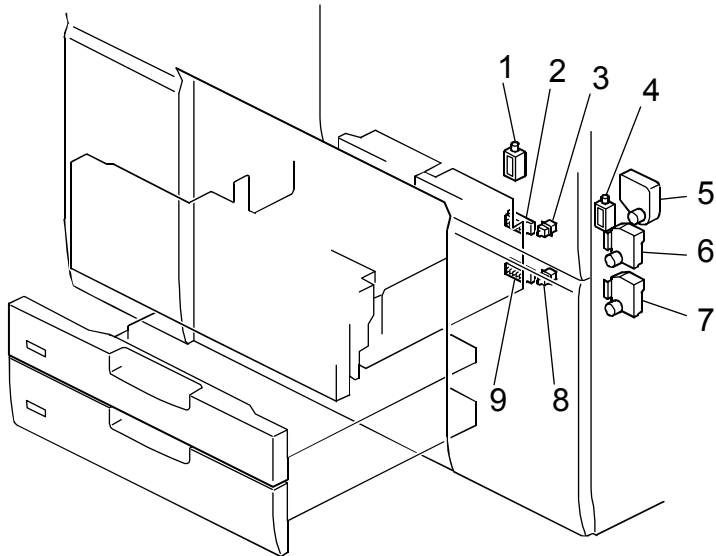


Fig16

d1797916

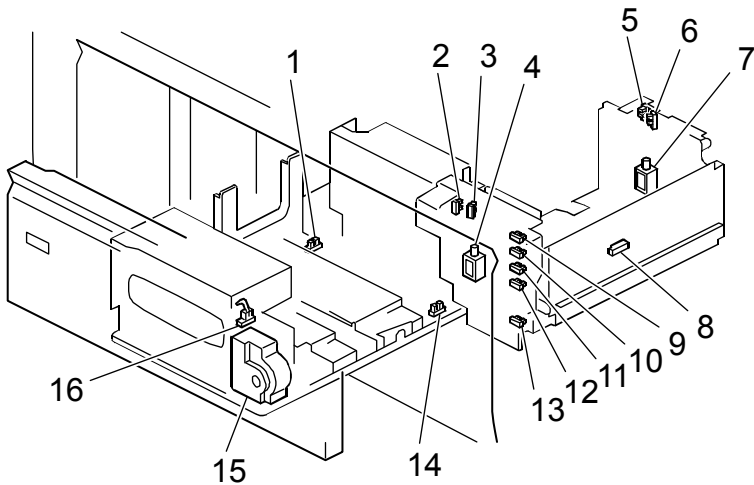


Fig17

d1797917

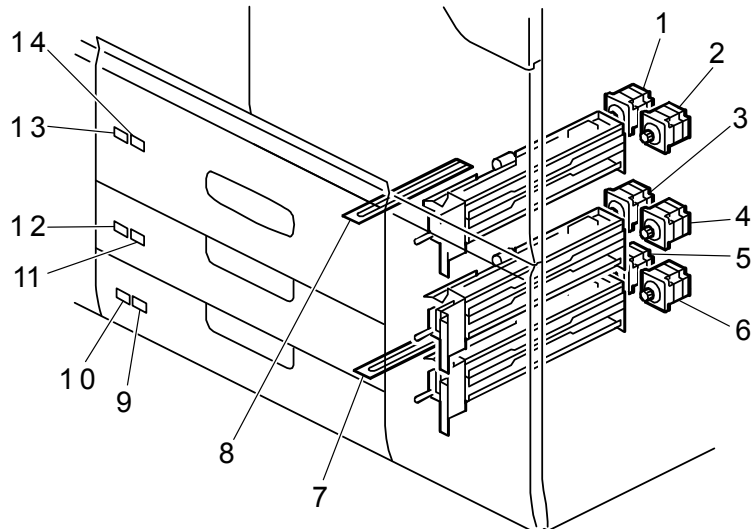


Fig18

d1797918

D179/D180/D181 ELECTRICAL COMPONENT LAYOUT

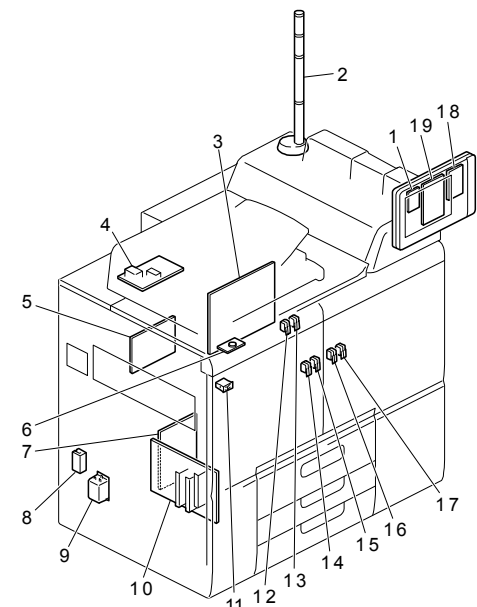


Fig19 d1797919

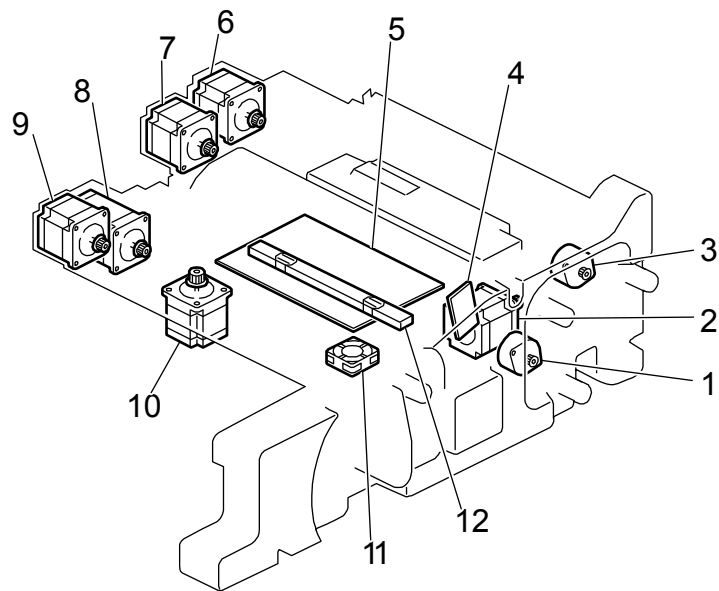


Fig20 d1797920

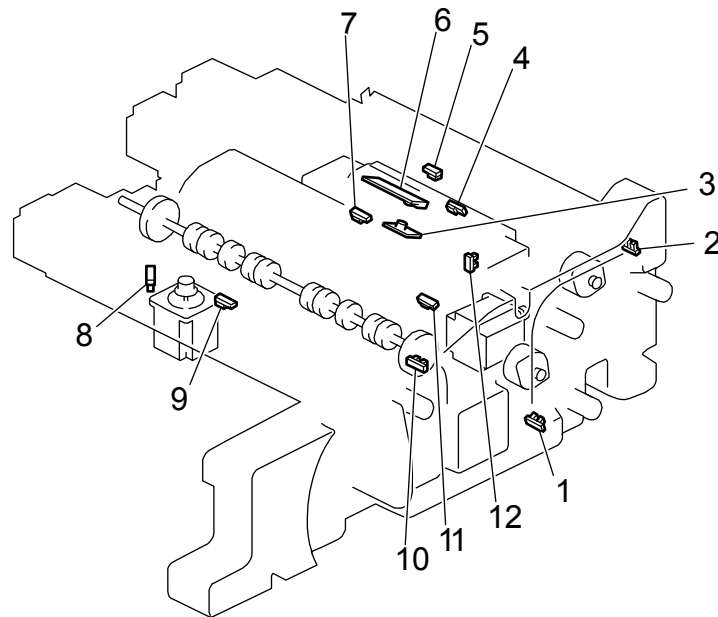


Fig21 d1797921

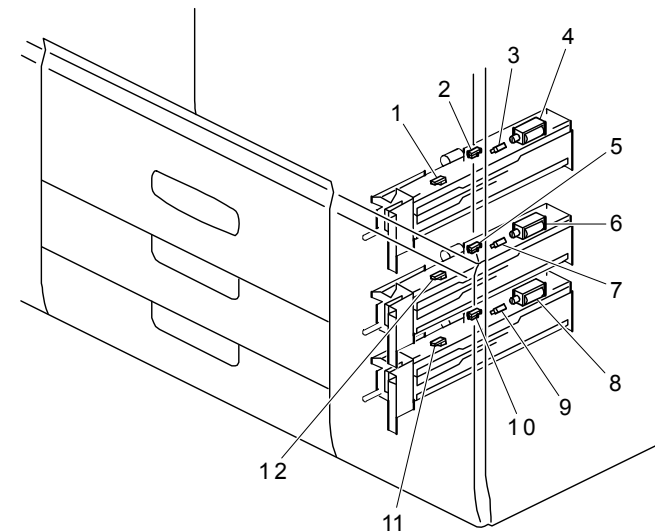


Fig22 d1797922

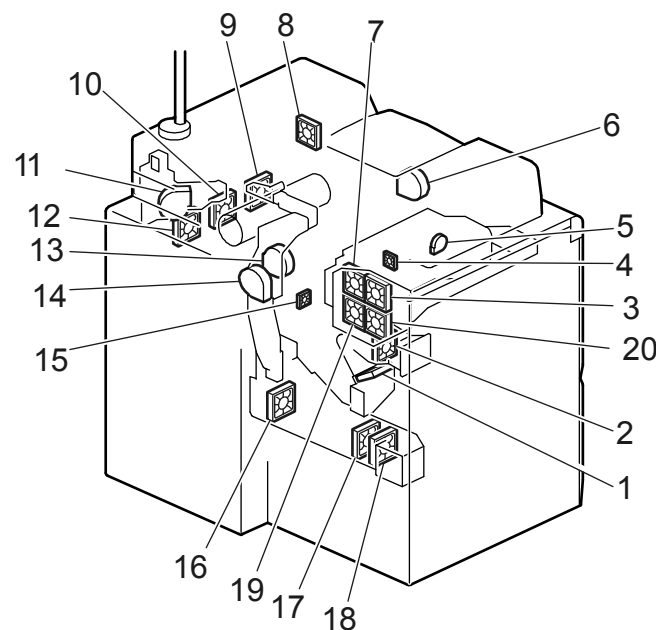


Fig23 d1797923

D179/D180/D181 ELECTRICAL COMPONENT LAYOUT

Symbol	Index No.	Description	P to P
Motors			
M1	Fig2—7	Feed Motor	1-B7
M2	Fig1—7	Bottom Plate Lift Motor	DF-E10
M3	Fig2—3	Entrance Motor	DF-D10
M4	Fig2—5	Transport Motor	DF-B1
M5	Fig2—4	Pickup Roller Motor	DF-B3
M6	Fig2—8	Scan Motor	DF-E10
M7	Fig2—9	Exit Motor	DF-D10
M8	Fig3—1	Scanner Motor	4-A5
M9	Fig4—3	Polygon Mirror Motor	4-A5
M10	Fig5—1	Charge Wire Cleaner Motor	1-C7
M11	Fig14—6	Drum Motor	1-C6
M12	Fig6—1	Toner Feed Motor	1-C7
M13	Fig6—4	Toner Bottle Cap Motor - Right	3-B10
M14	Fig6—7	Toner Agitator Motor	1-B7
M15	Fig6—8	Toner Bottle Motor - Right	3-C9
M16	Fig7—1 Fig14—2	Used Toner Collection Motor	1-B3
M17	Fig7—4	Used Toner Bottle Motor	1-E11
M18	Fig8—1	PTR Separation Motor	3-G8
M19	Fig8—7	Transport Belt Motor	3-G9
M20	Fig8—11	Belt Centering Motor	3-F9
M21	Fig9—1	Web Motor	3-H7
M22	Fig10—1	Vertical Transport Motor	3-B7
M23	Fig10—2	Bank Exit Motor	3-B7
M24	Fig11—1	Exit Junction Gate Motor	2-F5
M25	Fig11—2	Invert Entrance Motor	2-F5
M26	Fig11—8	Exit Motor	2-F1
M27	Fig12—6	Invert Exit Motor	2-F5
M28	Fig12—1	Exit/Invert Motor	2-F5
M29	Fig13—1	Duplex Transport Motor 1	2-F5
M30	Fig13—4	Duplex Invert Motor	2-E9
M31	Fig13—10	Duplex Transport Motor 2	2-B9
M32	Fig14—1	Fusing Motor	1-C4
M33	Fig11 - 11	PTB Motor	2-G8
M34	Fig14—3	ITB/PTR Drive Motor	1-B7
M35	Fig14—4	Development Motor	1-B5
M36	Fig14—5	Drum Cleaning Unit Motor	1-B6
M37	Fig6—2	Toner Bottle Cap Motors - Left	3-B9
M38	Fig16—5	Tray Lift Motor - Tray 1	3-D5
M39	Fig16—6	Tray Lift Motor - Tray 2	3-E5
M40	Fig16—7	Tray Lift Motor - Tray 3	3-E5
M41	Fig17—15	Rear Fence Drive Motor	3-A4
M42	Fig18—1	Tray 1 Feed Motor	3-B8
M43	Fig18—2	Tray 1 Grip Motor	3-B8
M44	Fig18—3	Tray 2 Feed Motor	3-B7
M45	Fig18—4	Tray 2 Grip Motor	3-B7
M46	Fig18—5	Tray 3 Feed Motor	3-B7
M47	Fig18—6	Tray 3 Grip Motor	3-B7
M48	Fig20—1	Main Relay Separation Motor	2-B10
M49	Fig20—2	TE Registration Shift Motor	2-B10
M50	Fig20—3	LCIT Relay Separation Motor	2-B10
M51	Fig20—6	Registration Entrance Motor	2-B9
M52	Fig20—7	Registration Timing Motor	2-B9
M53	Fig20—8	Registration Gate Motor	2-B8
M54	Fig20—9	Transfer timing sensor	2-B8
M55	Fig20—10	LE Registration Shift Motor	2-F8
M56	Fig6—11	Toner Bottle Motor - Left	3-C8
M57	Fig14 - 7	Pressure Roller Lift Motor	2-E5

Symbol	Index No.	Description	P to P
Sensors			
S1	Fig1—24	Original Set Sensor	DF-B10
S2	Fig1—1	Open/Close Sensor	DF-A10
S3	Fig1—3	Original Size Sensor (LG)	DF-A10
S4	Fig1—4	Original Size Sensor (A4)	DF-A10
S5	Fig1—5	Original Size Sensor (B5)	DF-B10
S6	Fig1—6	Original Size Sensor (A4 LEF, LT LEF)	DF-C10
S7	Fig1—14	Double-Feed Sensors (Lower: Emitter)	DF-F10
S8	Fig1—9	Bottom Plate Position Sensor	DF-D1
S9	Fig1—10	Pickup Roller HP Sensor	DF-C1
S10	Fig1—11	Separation Sensor	DF-C1
S11	Fig1—12	Skew Correction Sensor	DF-C1
S12	Fig1—14	Double-Feed Sensors (Upper: Receptor)	DF-G10
S13	Fig1—15	Scan Entrance Sensor	DF-D1
S14	Fig1—16	Width Size Sensor 5	DF-A1
S15	Fig1—17	Width Size Sensor 4	DF-A1
S16	Fig1—18	Width Size Sensor 3	DF-A1
S17	Fig1—19	Width Size Sensor 2	DF-B1
S18	Fig1—20	Width Size Sensor 1	DF-B1
S19	Fig1—21	Registration Sensor	DF-D1
S20	Fig1—22	Exit sensor	DF-D1
S21	Fig1—23	Bottom Plate HP Sensor	DF-B10
SEN4	Fig11—10	PTB Sensor	2-F10
SEN22	Fig5—2	Lubricant End Sensor	1-G9
SEN23	Fig3—4	APS Sensor 2	4-A4
SEN24	Fig3—6	Platen Sensor	4-B8
SEN25	Fig3—7	Scanner HP Sensor	4-B4
SEN26	Fig5—3	Drum Potential Sensor	1-E8
SEN27	Fig3—5	APS Sensor 1	4-A4
SEN28	Fig9—14	Pressure Roller Lift Sensor B	3-G7
SEN29	Fig5—6	PCDU Temperature/Humidity Sensor	1-F10
SEN30	Fig6—12	Toner Bottle Set Sensor - Left	3-B9
SEN31	Fig5—7	TD Sensor	3-G10
SEN32	Fig6—9	Toner Bottle Set Sensor - Right	3-B10
SEN33	Fig6—3	Toner Bottle Cap Sensor - Left	3-B8
SEN34	Fig6—10	Toner Supply Bottle End Sensor	1-E8
SEN35	Fig7—2	Used Toner Collection Lock Sensor	1-B3
SEN36	Fig7—3	Used Toner Bottle Full Sensor	1-E11
SEN37	Fig7—5	Used Toner Bottle Near Full Sensor	1-E11
SEN38	Fig7—7	Temperature/Humidity Sensor	1-E11
SEN39	Fig8—5	ID Sensor	3-G9
SEN40	Fig5—4	Cleaning Pad HP Sensor	1-F9
SEN41	Fig8—6	Belt Centering Sensor	3-F10
SEN42	Fig8—10	PTR Separation Sensor	3-G10
SEN43	Fig8—12	Belt Centering Roller HP Sensor	3-G11
SEN44	Fig9—2	Web End Sensor	3-G7
SEN45	Fig9—3	Pressure Roller Paper Sensor	3-G8
SEN46	Fig9—5	Fusing Exit Sensor	3-G8
SEN47	Fig21—11	Main Relay Sensor	2-F7
SEN48	Fig9—8	Heating Roller NC Sensor (Center)	3-G5
SEN49	Fig9—9	Heating Roller NC Sensor (End)	3-G5
SEN50	Fig9—6	Fusing Belt Sensor	3-G5
SEN51	Fig9—15	Hot Roller NC Sensor	3-G5
SEN52	Fig9—17	Fusing Temperature Sensor (Pressure Roller)	3-G8

SEN53	Fig9—21	Pressure Roller Lift Sensor A	3-G7
SEN54	Fig10—3	Bank Exit Sensor	3-E4
SEN55	Fig10—4	Vertical Transport Sensor	3-E4
SEN56	Fig10—5	2nd Transport Sensor	3-E4
SEN57	Fig10—6	3rd Transport Sensor	3-E4
SEN58	Fig12—3	Exit Invert Sensor	2-F4
SEN59	Fig11—4	Exit Sensor	2-F3
SEN60	Fig11—6	Exit Junction Gate Sensor	2-F4
SEN62	Fig11—3	Exit Junction Gate HP Sensor	2-F3
SEN63	Fig12—4	Purge Relay Sensor	2-F2
SEN64	Fig12—5	Invert Exit HP Sensor	2-F3
SEN65	Fig12—7	Duplex Invert Sensor	2-F1
SEN66	Fig12—8	Purged Paper Sensor	3-E6
SEN67	Fig13—2	Duplex Transport Sensor 1	2-F3
SEN68	Fig13—3	Duplex Transport Sensor 2	2-F3
SEN69	Fig13—5	Duplex Transport Sensor 3	2-F3
SEN70	Fig13—6	Duplex Transport Sensor 4	2-F6
SEN71	Fig13—7	Duplex Transport Sensor 5	2-F6
SEN72	Fig13—8	Duplex Transport Sensor 6	2-F7
SEN73	Fig13—9	Duplex Unit Exit Sensor	2-F7
SEN74	Fig16—2	Tray 2 Paper Size Sensor	3-E6
SEN75	Fig16—9	Tray 3 Paper Size Sensor	3-E6
SEN76	Fig17—1	Rear Fence HP Sensor	3-A5
SEN77	Fig17—2	Tandem Tray End Fence Close Sensor - Front	3-A6
SEN78	Fig17—3	Tandem Tray End Fence Open Sensor - Front	3-A6
SEN79	Fig17—5	Tandem Tray End Fence Close Sensor - Rear	3-A6
SEN80	Fig17—6	Tandem Tray End Fence Open Sensor - Rear	3-A6
SEN81	Fig17—8	Right Tray Paper End Sensor	3-A6
SEN82	Fig17—9	Paper Height Sensor 1	3-A6
SEN83	Fig17—10	Paper Height Sensor 2	3-A6
SEN84	Fig17—11	Paper Height Sensor 3	3-A6
SEN85	Fig17—12	Paper Height Sensor 4	3-A6
SEN86	Fig17—13	Lower Limit Sensor	3-A5
SEN87	Fig17—14	Rear Fence Return Sensor	3-A5
SEN88	Fig17—16	Left Tray Paper End Sensor	3-A5
SEN89	Fig22—1	1st Feed Sensor	3-E2
SEN90	Fig22—2	1st Paper End Sensor	3-E2
SEN91	Fig22—3	1st Paper Upper Limit Sensor	3-E1
SEN92	Fig21—1	Main Relay HP Sensor	2-F7
SEN93	Fig21—2	LCT Relay HP Sensor	2-G10
SEN95	Fig21—4	Registration Entrance Sensor	2-F8
SEN96	Fig21—5	LCT Relay Sensor	2-B8
SEN98	Fig21—7	Registration Timing Sensor	2-F8
SEN99	Fig21—10	Registration Gate Roller HP Sensor	2-F10
SEN100	Fig21—9	Transfer Timing Sensor	2-G10
SEN101	Fig21—8	LE Shift Unit HP Sensor	2-E10
SEN102	Fig9—16	Thermopile - Front	3-H7
SEN103	Fig9—18	Thermopile - Near Front	1-A2
SEN104	Fig6—6	Toner Bottle Cap Sensor - Right	3-B9
SEN105	Fig21—12	TE Shift Unit HP Sensor	2-E7
SEN106	Fig9—20	Thermopile - Rear	1-A2
SEN107	Fig21—6	Double-Feed Sensor (Receptor)	2-G11
SEN108	Fig21—3	Double-Feed Sensor (Emitter)	2-G11
SEN109	Fig22—12	2nd Feed Sensor	3-E3
SEN110	Fig22—5	2nd Paper End Sensor	3-E2
SEN111	Fig22—7	2nd Paper Upper Limit Sensor	3-E2
SEN112	Fig22—11	3rd Feed Sensor	3-E4
SEN113	Fig22—10	3rd Paper End Sensor	3-E3
SEN114	Fig22—9	3rd Paper Upper Limit Sensor	3-E3

D179/D180/D181 ELECTRICAL COMPONENT LAYOUT

Symbol	Index No.	Description	P to P
Switches			
SW1	Fig19—17	Interlock Switches - Right Door 2	3-B4
SW2	Fig6—5	Toner Bottle Cover Switch	3-B4
SW3	Fig7—6	Used Toner Bottle Set Switch	1-E11
SW4	Fig8—13	ITB Cleaning Unit Set Switch	3-G11
SW5	Fig16—3	Tray 2 Set Switch	3-E6
SW6	Fig16—8	Tray 3 Set Switch	3-E6
SW7	Fig19—11	Main Power Switch	1-E3
SW8	Fig19—12	Interlock Switches - Front Left	3-B4
SW9	Fig1—2	Lift Interlock Switch	DF-F10
SW10	Fig19—13	Interlock Switches - Front Right	3-B4
SW11	Fig19—14	Interlock Switches - Left Door 1	3-B4
SW12	Fig19—15	Interlock Switches - Left Door 2	3-B4
SW13	Fig19—16	Interlock Switches - Right Door 1	3-B4
SW14	Fig1—8	Feed cover open switch	DF-E10
SW15	Fig19—6	Operation Power Switch	4-B2
Symbol	Index No.	Description	P to P
Solenoids			
SOL1	Fig12—2	Invert Junction Gate Solenoid	2-F2
SOL2	Fig16—1	Left Tray Lock Solenoid	3-E6
SOL3	Fig16—4	Lock Release Solenoid	3-C6
SOL4	Fig17—4	End Fence Open/Close Solenoid - Front	3-A5
SOL5	Fig17—7	End Fence Open/Close Solenoid -	3-A5
SOL6	Fig22—4	1st Pickup Solenoid	3-E1
SOL7	Fig22—6	2nd Pickup Solenoid	3-E2
SOL8	Fig22—8	3rd Pickup Solenoid	3-E3

Symbol	Index No.	Description	P to P
LEDs			
LED1	Fig18—14	Tray 1 LED 1	3-E7
LED2	Fig18—13	Tray 1 LED 2	3-E7
LED3	Fig18—12	Tray 2 LED 1	3-E7
LED4	Fig18—11	Tray 2 LED 2	3-E7
LED5	Fig18—10	Tray 3 LED 1	3-E7
LED6	Fig18—9	Tray 3 LED 2	3-E8
Symbol	Index No.	Description	P to P
Heaters			
H1	Fig3—9	Anti-condensation Heater	1-E3
H2	Fig8—8	ITB Unit Heater	3-E10
H3	Fig18—7	Paper Bank Heater - Lower	1-F6
H4	Fig18—8	Paper Bank Heater - Upper	1-F6
Symbol	Index No.	Description	P to P
Thermostats/Thermistors			
TH1	Fig8—3	ITB Unit Thermostat	3-E10
TH2	Fig9—4	Heating Roller Thermostat (End)	3-G6
TH3	Fig9—7	Heating Roller Thermostat (Center)	3-H6
TH4	Fig9—10	Fusing Heating Roller Thermistor	3-G7
TH5	Fig9—19	Pressure Roller Thermostat	3-G7
TH6	Fig9—22	Pressure Roller Thermistor	3-G8
TH7	Fig14—8	Thermistor Mechatron	1-B6
Symbol	Index No.	Description	P to P
Others			
BR1	Fig19—8	Breaker	1-H6
NF1	Fig19—9	Noise Filter	1-H5

Symbol	Index No.	Description	P to P
FANs			
FAN1	Fig23—20	Paper Exit Exhaust Fan: Lower Left	2-B4
FAN2	Fig11—11	PTB Fan (Front)	2-G9
FAN3	Fig11—9	PTB Fan (Rear)	2-G9
FAN4	Fig23—19	Paper Exit Exhaust Fan: Lower Right	2-B4
FAN5	Fig15—13	PSU Air Intake Fan: M2 Right	4-G7
FAN6	Fig15—12	PSU Air Intake Fan: M1 Right	4-G7
FAN7	Fig15—6	Control Board Air Intake Fan	4-E2
FAN8	Fig15—4	PSU Air Exhaust Fan: M1 Left	4-G7
FAN9	Fig15—1	PSU Air Exhaust Fan: M2 Left	4-G7
FAN10	Fig15—15	PSU Cooling Fan: T Left	4-H5
FAN11	Fig15—14	PSU Cooling Fan: T Right	4-H6
FAN12	Fig23—13	Development Unit Cooling Fan: Rear	1-B3
FAN13	Fig23—1	HP Cooling Exhaust Fan	2-C1
FAN14	Fig23—2	HP Cooling Suction Fan	2-C1
FAN15	Fig11—7	Duplex fan — Lower, rear	2-G2
FAN16	Fig23—4	PTR Fan (Front)	2-F9
FAN17	Fig20—11	CIS Cleaning Fan	2-F9
FAN18	Fig23—7	Fusing Air Intake Fan: Lower Left	2-B3
FAN19	Fig11—5	Duplex fan — Lower, front	2-G1
FAN20	Fig23—8	Laser Unit Cooling Fan	1-F10
FAN21	Fig23—9	Right Air Intake Fan: Front	1-G8
FAN22	Fig23—10	Right Air Intake Fan: Center	1-G8
FAN23	Fig23—11	Ozone Air Intake Fan	1-E9
FAN24	Fig23—12	Right Air Intake Fan: Rear	1-F8
FAN25	Fig23—3	Fusing Air Intake Fan: Lower Right	2-B4
FAN26	Fig23—14	Ozone Air Exhaust Fan	1-B4
FAN27	Fig23—15	PTR Fan (Rear)	2-F9
FAN28	Fig23—16	Fusing Transport Exhaust Fan	2-B5
FAN29	Fig23—17	Fusing Exhaust Fan - Upper	2-B4
FAN30	Fig23—18	Fusing Exhaust Fan Lower	2-B4
FAN31	Fig8—4	ID Sensor Fan	3-G10
FAN32	Fig23—6	Development Unit Cooling Fan: Front	1-A2
FAN33	Fig23—5	Belt Cooling Fan	1-B2

Symbol	Index No.	Description	P to P
PCBs			
PCB1	Fig2—1	Double-feed Sensor Board	DF-F8
PCB2	Fig2—2	ADF Control Board	DF-D5
PCB3	Fig2—6	CIS	DF-F2
PCB4	Fig3—2	SIO	4-B5
PCB5	Fig3—3	IDB	4-B5
PCB6	Fig3—10	SBU	4-C5
PCB7	Fig4—1	LD Board	4-B7
PCB8	Fig4—4	Polygon Mirror Motor Driver	4-B8
PCB9	Fig8—2	Transfer Power Pack	3-E10
PCB10	Fig8—9	TDRB (Transfer Drive Relay Board)	3-F10
PCB11	Fig15—2	PSU-A	4-G4
PCB12	Fig15—3	PSU-B	4-H3
PCB13	Fig15—5	HDD	4-D1
PCB14	Fig15—7	Controller Board	4-D2
PCB15	Fig15—8	IPU Sub Board	4-D5
PCB16	Fig15—9	IPU Main Board	4-D3
PCB17	Fig15—10	CNB	4-E4
PCB18	Fig15—11	BCU	4-E3
PCB19	Fig15—16	PSU-C	4-F5
PCB20	Fig19—3	IOB	1-D6
PCB21	Fig19—4	Charge, Grid, Bias Power Pack (CGB)	1-A3
PCB22	Fig19—7	RYB	3-C5
PCB23	Fig19—5	EDRB	2-D4
PCB24	Fig19—10	AC Drive Board	1-G5
PCB25	Fig20—4	CRB	2-B11
PCB26	Fig20—5	DRB	2-D8
PCB27	Fig20—12	CIS	2-B11
PCB28	Fig4—2	Laser Synchronization Detection Board (Trailing Edge)	4-A7
PCB29	Fig4—5	Laser Synchronization Detection Board (Leading Edge)	4-A7
PCB30	Fig11—12	Paper Separation Power Pack	2-C10
PCB31	Fig19—1	LCDC	4-B4
PCB32	Fig19—18	SD/USB	4-B4
PCB33	Fig19—19	OPU	4-B3
Symbol	Index No.	Description	P to P
Lamps			
L1	Fig9—11	Heating Roller Lamps (1090/1000 W)	3-G6
L2	Fig9—12	Heating Roller Lamps (1150/900 W)	3-G6
L3	Fig9—13	Pressure Roller Fusing Lamp	3-G5
L4	Fig19—2	Sylindrical Lamp	4-A3
L5	Fig5—5	Quenching Lamp	1-B5
L6	Fig3—8	Exposure Lamp	4-C5