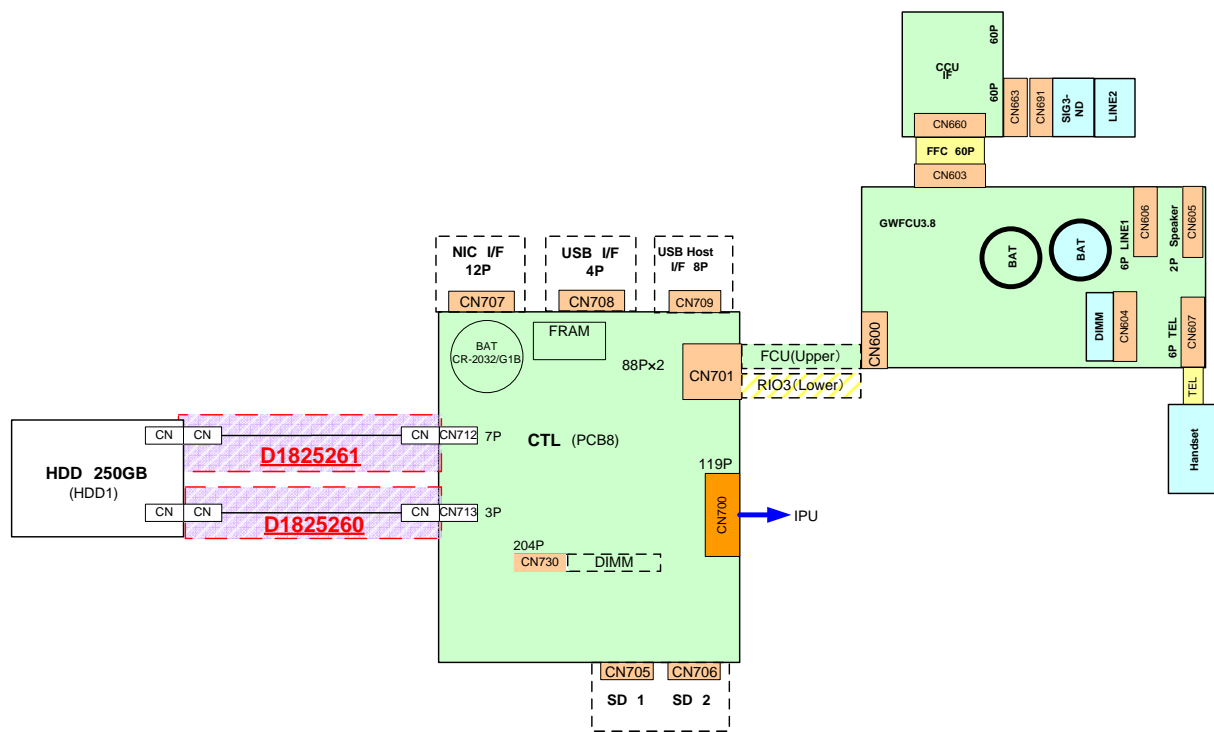


D182/D183/D184  
POINT TO POINT DIAGRAM(1/2)

# D182/D183/D184 POINT TO POINT DIAGRAM(2/2)



Pin Assignment

Connector (FROM)		Signal Information					Connector (TO)			
To Connector	Pin No	No	Signal Name	Direction	L	H	No	Pin No	To Connector	
BCU	CN321	1	ID Sensor:+5V	P			4	CN801	ID Sensor	
		2	ID Sensor:GND	G			3			
		3	ID Sensor:PWM	→			2			
		4	ID Sensor:FB	←			1			
		5	Registration Sensor:GND	G			3	CN803	Registration Sensor	
		6	Registration Sensor:Detection	←	Detect	Not Detect	2			
		7	Registration Sensor:+5V	P			1			
		8	Right Door Open Switch:GND	G			2	CN804	Right Door Open Switch	
		9	Right Door Open Switch:Right Door Open Detection	←	Close	Open	1			
		10	N.C	-			-	-	-	
		11	Registration Clutch:+24V	P			2	CN802	Registration Clutch	
		12	Registration Clutch:Control	→	ON	OFF	1			
BCU	CN313	1	Main Motor: Gain Switching	→	Hi	Low	12	CN807	Main Motor	
		2	Main Motor:Clock	→			11			
		3	Main Motor:Brake	→	ON	OFF	10			
		4	Main Motor:Directionswitching	→	CCW	CW	9			
		5	Main Motor:ON	→	Start	Stop	8			
		6	Main Motor:Lock	←	Normal	Trouble(Lock)	7			
		7	Main Motor:+5V	P			6			
		8	Main Motor:GND	G			5			
		9	Main Motor:GND	G			4			
		10	Main Motor:GND	G			3			
		11	Main Motor:+24V	P			2			
		12	Main Motor:+24V	P			1			
BCU	CN327	1	PCU:Set Detection	←	Not Set	Set	4	CN806	PCU	
		2	PCU:GND	G			3			
		3	PCU:TD Sensor:FB	←			2			
		4	PCU:+5V	P			1			
		5	N.C	-			-			-
		6	N.C	-			-			-
		7	N.C	-			-			-
BCU	CN312	1	I-L_SW:+5VS/Front Door Open Detection	←	Close	Open	2	CN2	Interlock Switch	
		2	I-L_SW:+5V	P			2			
		3	I-L_SW:+24VS/Front Door Open Detection	←	Open	Close	1			
		4	I-L_SW:+24V	P			2			
Interlock Switch	CN1	1	I-L_SW:+5VS	→			1	CN2		
BCU	CN315	1	Mechanical Total Counter:+24V	P			2	CN810		
		2	Mechanical Total Counter:Control	→	OFF	ON	1			
IPU	CN111	1	Polygon Mirror Motor:24V	PO			5	CN809	Polygon Mirror Motor	
		2	Polygon Mirror Motor:GND	G			4			
		3	Polygon Mirror Motor:Start	O	Start		3			
		4	Polygon Mirror Motor:Synchronization	←	Synchronization		2			
		5	Polygon Mirror Motor:Clock	→			1			
BCU	CN115	1	DCSW ON Signal	←	ON		2	CN4	DCSW	
		2	GND	G			1			
BCU	CN323	1	Quenching lamp:+24V	P			2	CN812	Quenching lamp	
		2	Quenching lamp:Lighting	→			1			
		3	Toner Bottle Motor:ON	→	OFF	ON	2	CN811	Toner Bottle Motor	
		4	Toner Bottle Motor:Power	→			1			

Connector (FROM)		Signal Information					Connector (TO)		
To Connector	Pin No	No	Signal Name	Direction	L	H	No	Pin No	To Connector
BCU	CN331	1	Paper Exit Solenoid:+24V	P			13	CN814	Paper Exit Solenoid
		2	Paper Exit Solenoid:Control	→	ON	OFF	12		
		3	Inverter Motor:An excitation Signal :BPhase	→			11		
		4	Inverter Motor:An excitation Signal :APhase	→			10		
		5	Inverter Motor:+24V	P			9		
		6	Inverter Motor:+24V	P			8		
		7	Inverter Motor:An excitation Signal :/BPhase	→			7		
		8	Inverter Motor:An excitation Signal :/APhase	→			6		
		9	Inverter Sensor:GND	G			5		
		10	Inverter Sensor:Detection	←	Detect	Not Detect	4		
		11	Inverter Sensor:+5V	P			3		
		12	Junction/Inverter UNI:GND	G			2		
		13	Junction/Inverter UNI:Set Detection	←	Set	Not Set	1		
IBIN LED	CN1	1	IBIN:LED:CATHODE				2	CN815	1BIN
		2	IBIN:LED:ANODE				1		
		1	1BIN :Invert Output Signal	→	ON	OFF	9		
		2	1BIN:Transfer Sensor	←	Detect	Not Detect	8		
		3	1BIN:Tray Paper Detection	←	Detect	Not Detect	7		
		4	1BIN Unit:Set Detection	←	Set	Not Set	6		
		5	1BIN:GND	G			5		
BCU	CN324	1	Paper Exit Sensor:GND	G			3	CN816	Paper Exit Sensor
		2	Paper Exit Sensor:Detection	←	Detect	Not Detect	2		
		3	Paper Exit Sensor:+5V	P			1		
		4	Paper Overflow Sensor:GND	G			3		
		5	Paper Overflow Sensor:Detection	←	Full	Not Detect	2		
		6	Paper Overflow Sensor:+5V	P			1		
PSU	CN282	1	AC_L_ON-AC_L				3	CN282	PSU
		2	AC_N_ON-AC_N				4		
BCU	CN333	1	Fusing Solenoid:+24V	P			4	CN813	Fusing Drive Release Solenoid
		2	N.C.	-			3		
		3	N.C.	-			2		
		4	Fusing Solenoid:Control	→	ON	OFF	1		
BCU	CN2	1	Relay Jig: +				2	CN291	PSU
		2	Relay Jig: -				1		
BCU	CN320	1	PSU Fan	→	OFF	ON	8	CN290	PSU
		2	Anti-condensation Heater ON	→	OFF(HeaterON)	ON(HeaterOFF)	7		
		3	Zero Cross Signal	←	Detect	Not Detect	6		
		4	Fusing Main Unit Trigger	→	OFF	ON	5		
		5	Fusing Sub Unit Trigger	→	OFF	ON	4		
		6	RELAY-TRGON	→	OFF	ON	3		
		7	24V	P			2		
		8	GND	G			1		
		9	Exhaust Fan	→	OFF	ON	3		
		10	Exhaust Fan :Lock detection	←	Normal	Trouble	2		
		11	Exhaust Fan: GND	G			1		
BCU	CN353	1	CTL Fan: Fan	→	OFF	ON	3	CN1	CTL Fan
		2	CTL Fan:Lock detection	←	Normal	Trouble	2		
		3	CTL Fan:GND	G			1		

Pin Assignment

Connector (FROM)			Signal Information				Connector (TO)		
To Connector	Pin No	No	Signal Name	Direction	L	H	No	Pin No	To Connector
IPU	CN114	1	IPU: PONENG_N_PowerControl	→	ON	OFF	6	CN293	PSU
		2	IPU: GND	G			1	CN292	
		3	IPU: 24V	PI			10	CN293	
		4	IPU: GND	G			2	CN292	
		5	IPU: 5V	PI			12	CN293	
		6	IPU: GND	G			4	"	
		7	IPU: 5VX	PI			4	CN292	
		8	IPU: 5VX	PI			5	"	
BCU	CN311	1	BCU: 24V	P			7	CN293	PSU
		2	BCU: 24V	P			8	"	
		3	BCU: GND	G			3	CN292	
		4	BCU: GND	G			1	CN293	
		5	BCU: GND	G			2	"	
		6	BCU: 5V	P			11	"	
		7	BCU: 5VE	P			6	CN292	
			N.C.	-			9	CN293	PSU
			N.C.	-			3	"	
			N.C.	-			5	"	
BCU	CN341	1	Finisher Unit:RXD	←			7	CN3	Finisher Unit
		2	N.C.	-			-	-	
			N.C.	-			6	CN3	
			N.C.	-			8	CN3	
BCU	CN341	3	Finisher Unit:TXD	→			5	CN3	Finisher Unit
		4	Finisher Unit:+5V	P			4		
		5	Finisher Unit:+5V	P			3		
		6	Finisher Unit:GND	G			2		
		7	Finisher Unit:GND	G			1		
							9	CN4	
							8		
PSU	CN294	1	Finisher Unit:GND	G			9	CN4	Finisher Unit
		2	Finisher Unit:GND	G			8		
		3	Finisher Unit:GND	G			7		
		4	Finisher Unit:GND	G			6		
		5	Finisher Unit:+24V	P			5		
		6	Finisher Unit:+24V	P			4		
		7	Finisher Unit:+24V	P			3		
		8	Finisher Unit:+24V	P			2		
PSU	CN285	1	Drum: AC.L	P			1	CN829	Drum Heater
		2	Scanner: AC.L	P			1	CN823	Anti-Condensation Heater (Option)
		3	Paper Feed: AC.L	P			1	CN824	Tray Heater (Main)
		4	BANK: AC.L	P			1	CN825	Tray Heater (PFU)
		5	Drum: AC.N	P			2	CN829	Drum Heater
		6	Scanner: AC.N	P			2	CN823	Anti-Condensation Heater (Option)
		7	Paper Feed: AC.N	P			2	CN824	Tray Heater (Main)
		8	BANK: AC.N	P			2	CN825	Tray Heater (PFU)
INLET	INLET	L	AC.L.IN	P				T280	PSU
		N	AC.N.IN	P				T281	
		E	GND	G					

Connector (FROM)			Signal Information				Connector (TO)		
To Connector	Pin No	No	Signal Name	Direction	L	H	No	Pin No	To Connector
BCU	CN301	1	FFC Connection Detection	-			50	CN101	IPU
		2	IPU address: bit14	→			49		
		3	IPU address: bit15	→			48		
		4	IPU address: bit16	→			47		
		5	IPU address: bit17	→			46		
		6	GND	G			45		
		7	IPU address: bit18	→			44		
		8	IPU address: bit19	→			43		
		9	IPU address: bit20	→			42		
		10	IPU address: bit21	→			41		
		11	GND	G			40		
		12	IPU address: bit22	→			39		
		13	IPU address: bit23	→			38		
		14	IPU address: bit24	→			37		
		15	IPU address: bit25	→			36		
		16	GND	G			35		
		17	IPU address: bit26	→			34		
		18	IPU address: bit27	→			33		
		19	IPU address: bit28	→			32		
		20	IPU address: bit29	→			31		
		21	IPU address: bit30	→			30		
		22	IPU Date: bit15	I/O			29		
		23	IPU Date: bit14	I/O			28		
		24	IPU Date: bit13	I/O			27		
		25	IPU Date: bit12	I/O			26		
		26	GND	G			25		
		27	IPU Date: bit11	I/O			24		
		28	IPU Date: bit10	I/O			23		
		29	IPU Date: bit9	I/O			22		
		30	IPU Date: bit8	I/O			21		
		31	GND	G			20		
		32	IPU Date: bit7	I/O			19		
		33	IPU Date: bit6	I/O			18		
		34	IPU Date: bit5	I/O			17		
		35	IPU Date: bit4	I/O			16		
		36	GND	G			15		
		37	IPU Date: bit3	I/O			14		
		38	IPU Date: bit2	I/O			13		
		39	IPU Date: bit1	I/O			12		
		40	IPU Date: bit0	I/O			11		
		41	GND	G			10		
		42	BREIT Chip SelectI	→			9		
		43	GND	G			8		
		44	GND	G			7		
		45	ICIB Chip Select I	→			6		
		46	Address Latch Enable Signal I	→			5		
		47	IPU Write I	→			4		
		48	IPU Read I	→			3		
		49	IPURead/Write I	→			2		
		50	FFC Connection DetectionO	G			1		
BCU	CN302	1	GND	G			12	CN102	IPU
		2	IPU Reset(M2P Side)	→			11		
		3	IPU Reset(S2M Side)	→			10		
		4	IPU Interrupt	←			9		
		5	3.3V Reset(H: Reset)	←			8		
		6	ARDF:UART Transmission	→			7		
		7	ARDF:UART Reception	←			6		
		8	GAVD Synchronization SCI: Chip Select	→			5		
		9	GAVD Synchronization SCI: Data entry	←			4		
		10	GAVD Synchronization SCI: Clock	→			3		
		11	GAVD Synchronization SCI: Data Output	→			2		
		12	GND	G			1		
BCU	CN303	1	GND	G			2	CN103	IPU
		2	+5VSPowerP	P			1		

Pin Assignment

Connector (FROM)			Signal Information				Connector (TO)		
To Connector	Pin No	No	Signal Name	Direction	L	H	No	Pin No	To Connector
BCU	CN325	1	HVP:Development PWM	→			12	CN295	HVP
		2	HVP:Development FB	←			11		
		3	HVP:Charge FB	←			10		
		4	HVP:Charge PWM	→			9		
		5	HVP:Transfer(+)PWM	→			8		
		6	HVP:Transfer(-)PWM	→			7		
		7	HVP:TransferFB	←			6		
		8	HVP:Separation PWM	→			5		
		9	HVP:Separation FB	←			4		
		10	HVP:+5V	P			3		
		11	HVP:GND	G			2		
		12	HVP:+24VS	P			1		
PSU	CN285	1	N.C.						
		2	Scanner:AC_L	P			1	CN823	Anti-Condensation Heater (Option)
		3	Paper Feed:AC_L	P			1	CN824	Tray Heater (Main)
		4	BANK:AC_L	P			1	CN825	Tray Heater (PFU)
		5	N.C.						
		6	Scanner:AC_N	P			2	CN823	Anti-Condensation Heater (Option)
		7	Paper Feed:AC_N	P			2	CN824	Tray Heater (Main)
		8	BANK:AC_N	P			2	CN825	Tray Heater (PFU)
PSU	CN286	1	Fusing Unit :Main:L	P			1	CN826	Fusing Unit
		2	Fusing Unit :Sub:L	P			2		
		3	Fusing Unit :Main:N	P			3		
		4	Fusing Unit :Sub:N	P			4		
BCU	CN326	1	Fusing Main Unit :GND	G			14	CN826	Fusing Unit
		2	Fusing Main Unit :FB	←			9		
		3	Fusing Sub Unit :GND	G			13		
		4	Fusing Sub Unit :FB	←			8		
		5	Fusing Set:Detection	←	Set	Not Set	10		
		6	Fusing Set:GND	G			5		
	T1		FG	G			G		
PSU	CN286	1	Fusing Unit :Main:L	P			1	CN826	Fusing Unit
		2	Fusing Unit :Sub:L	P			2		
		3	Fusing Unit :Main:N	P			3		
		4	Fusing Unit :Sub:N	P			4		
BCU	CN326	1	Fusing Main Unit :GND	G			14	CN826	Fusing Unit
		2	Fusing Main Unit :FB	←			9		
		3	Fusing Sub Unit :GND	G			13		
		4	Fusing Sub Unit :FB	←			8		
		5	Fusing Set:Detection	←	Set	Not Set	11		
		6	Fusing Set:GND	G			5		
	T1		FG	G			G		
PSU	CN286	1	Fusing Unit :Main:L	P			1	CN826	Fusing Unit
		2	Fusing Unit :Sub:L	P			2		
		3	Fusing Unit :Main:N	P			3		
		4	Fusing Unit :Sub:N	P			4		
BCU	CN326	1	Fusing Main Unit :GND	G			14	CN826	Fusing Unit
		2	Fusing Main Unit :FB	←			9		
		3	Fusing Sub Unit :GND	G			13		
		4	Fusing Sub Unit :FB	←			8		
		5	Fusing Set:Detection	←	Set	Not Set	12		
		6	Fusing Set:GND	G			5		
	T1		FG	G			G		

Connector (FROM)			Signal Information				Connector (TO)		
To Connector	Pin No	No	Signal Name	Direction	L	H	No	Pin No	To Connector
			N.C.				8	CN1	BANK Unit
BCU	CN305	1	BANK:RXD	←			7		
		2	BANK:TXD	→			6		
		3	BANK:GND	G			5		
		4	BANK:GND	G			4		
		5	BANK:+5V	P			3		
		6	BANK:+5V	P			2		
		7	BANK:GND	G			1		
BCU	CN306	1	BANK:GND	G			7	CN2	
		2	BANK:GND	G			6		
		3	BANK:GND	G			5		
		4	BANK:+24V	P			4		
		5	BANK:+24V	P			3		
		6	BANK:+24V	P			2		
		7	BANK:+24V	P			1		
BCU	CN308	A1	1st Pick-up Solenoid:24VS	P			14	CN3	Pick-up Solenoid
		A2	1st Pick-up Solenoid:Control	→			13		
		A3	1st Paper Feed Paper leading edge Sensor:G	G			12		Paper Feed Sensor
		A4	1st Paper Feed Paper leading edge Sensor:O	←	Detect	Not Detect	11		
		A5	1st Paper Feed Paper leading edge Sensor:5	P			10		Vertical Transport Sensor
		A6	1st Vertical Transport Sensor:GND	G			9		
		A7	1st Vertical Transport Sensor:Output	←	Detect	Not Detect	8		Paper End Sensor
		A8	1st Vertical Transport Sensor:5V	P			7		
		A9	1st Paper End Sensor:GND	G			6		Paper End Sensor
		A10	1st Paper End Sensor:Output	←	Not Detect	Detect	5		
		A11	1st Paper End Sensor:5V	P			4		By-pass Tray HP Sensor
		A12	1st By-pass Tray HP Sensor:GND	G			3		
		A13	1st By-pass Tray HP Sensor:Output	←	Not Limit	Limit	2		By-pass Tray HP Sensor
		A14	1st By-pass Tray HP Sensor:5V	P			1		
B1	2nd Paper FeedPick-up Solenoid:24VS2	P			14	CN4	Pick-up Solenoid		
B2	2nd Paper FeedPick-up Solenoid:Control	→			13				
B3	2nd Paper Feed Paper leading edge Sensor:G	G			12		Paper Feed Sensor		
B4	2nd Paper Feed Paper leading edge Sensor:O	←	Detect	Not Detect	11				
B5	2nd Paper Feed Paper leading edge Sensor:5	P			10		Vertical Transport Sensor		
B6	2nd Vertical Transport Sensor:GND	G			9				
B7	2nd Vertical Transport Sensor:Output	←	Detect	Not Detect	8		Paper End Sensor		
B8	2nd Vertical Transport Sensor:5V	P			7				
B9	2nd Paper End Sensor:GND	G			6		Paper End Sensor		
B10	2nd Paper End Sensor:Output	←	Not Detect	Detect	5				
B11	2nd Paper End Sensor:5V	P			4		By-pass Tray HP Sensor		
B12	2nd Tray By-pass Tray HP Sensor:GND	G			3				
B13	2nd Tray By-pass Tray HP Sensor:Output	←	Not Limit	Limit	2		By-pass Tray HP Sensor		
B14	2nd Tray By-pass Tray HP Sensor:5V	P			1				
BCU	CN304	1	1st Vertical Transport CL:24V	P			2	CN5	Vertical Transport CL
		2	1st :Vertical Transport CL:Control	→	OFF	ON	1		
		3	1st :Paper Feed CL:24V	P			2	CN6	Paper FeedCL
		4	1st :Paper Feed CL:Control	→	OFF	ON	1		
		5	2nd :Vertical Transport CL:24V	P			2	CN7	Vertical Transport CL
		6	2nd :Vertical Transport CL:Control	→	OFF	ON	1		
		7	2nd :Paper Feed CL:24V	P			2	CN8	Paper FeedCL
		8	2nd :Paper Feed CL:Control	→	OFF	ON	1		

Pin Assignment

Connector (FROM)		Signal Information					Connector (TO)			
To Connector	Pin No	No	Signal Name	Direction	L	H	No	Pin No	To Connector	
BCU	CN307	A1	1st Paper Feed:SF:GND	G			3	CN9	Side fence	
		A2	1st Paper Feed:SF:Size Detection4	←			2			
		A3	1st Paper Feed:SF:5V	P			1			
		A4	1st Tray Paper Size Sensor Set	←			5	CN10	1st Tray Paper Size Sensor	
		A5	1st Tray Paper Size Sensor 1	←			4			
		A6	1st Tray Paper Size Sensor 2	←			3			
		A7	1st Tray Paper Size Sensor GND	G			2			
		A8	1st Tray Paper Size Sensor 3	←			1			
		A9	N.C.	-						
		A10	N.C.	-						
		A11	N.C.	-						
		A12	2nd Tray Paper Size Sensor Set	←			5	CN11	2nd Tray Paper Size Sensor	
		A13	2nd Tray Paper Size Sensor 1	←			4			
		A14	2nd Tray Paper Size Sensor 2	←			3			
		A15	2nd Tray Paper Size Sensor GND	G			2			
		A16	2nd Tray Paper Size Sensor 3	←			1			
B1	1st Paper Tray Lift Motor:Paper Height Sensor 1:GND	G			3	CN12	1st Paper Height Sensor 1			
B2	1st Paper Tray Lift Motor:Paper Height Sensor 1:Detection	←			2					
B3	1st Paper Tray Lift Motor:Paper Height Sensor 1:5V	P			1					
B4	1st Paper Tray Lift Motor:Paper Height Sensor 2:GND	G			3	CN13	1st Paper Height Sensor 2			
B5	1st Paper Tray Lift Motor:Paper Height Sensor 2:Detection	←			2					
B6	1st Paper Tray Lift Motor:Paper Height Sensor 2:5V	P			1					
B7	1st Paper Tray Lift Motor:Control(-)	→			2	CN14	1st Paper Tray Lift Motor			
B8	1st Paper Tray Lift Motor:Control(+)	→			1					
B9	2nd Paper Tray Lift Motor:Paper Height Sensor 1:GND	G			3	CN15	2nd Paper Height Sensor 1			
B10	2nd Paper Tray Lift Motor:Paper Height Sensor 1:Detection	←			2					
B11	2nd Paper Tray Lift Motor:Paper Height Sensor 1:5V	P			1					
B12	2nd Paper Tray Lift Motor:Paper Height Sensor 2:GND	G			3	CN16	2nd Paper Height Sensor 2			
B13	2nd Paper Tray Lift Motor:Paper Height Sensor 2:Detection	←			2					
B14	2nd Paper Tray Lift Motor:Paper Height Sensor 2:5V	P			1					
B15	2nd Paper Tray Lift Motor:Control(-)	→			2	CN17	2nd Paper Tray Lift Motor			
B16	2nd Paper Tray Lift Motor:Control(+)	→			1					
BCU	CN314	1	Duplex Motor: 24VS	P			12	CN18	Duplex Motor	
		2	Duplex Motor: A Phase	→			11			
		3	Duplex Motor: /A Phase	→			10			
		4	Duplex Motor: 24VS	P			9			
		5	Duplex Motor: B Phase	→			8			
		6	Duplex Motor: /B Phase	→			7			
		7	Duplex Unit Entrance Sensor: GND	G			6	Duplex Unit Entrance Sensor		
		8	Duplex Unit Entrance Sensor: Detection	←	Detect	Not Detect	5			
		9	Duplex Unit Entrance Sensor: 5V	P			4	Duplex Unit Exit Sensor		
		10	Duplex Unit Exit Sensor: GND	G			3			
		11	Duplex Unit Exit Sensor: Detection	←	Detect	Not Detect	2			
		12	Duplex Unit Exit Sensor: 5V	P			1			
		13	N.C.	-						
BCU	CN316	1	By-pass Paper Size Sensor2	←			18	CN19	By-pass Paper Size Sensor	
		2	By-pass Paper Size Sensor1	←			17			
		3	By-pass : GND	G			16			
		4	By-pass Paper Size Sensor4	←			15			
		5	By-pass Paper Size Sensor3	←			14			
		6	By-pass Paper Length Sensor: GND	G			13			
		7	By-pass Paper Length Sensor: Detection	←	Detect	Not Detect	12	By-pass Paper Length Sensor		
		8	By-pass Paper Length Sensor: 5V	P			11			
		9	By-pass Paper End Sensor: GND	G			10	By-pass Paper End Sensor		
		10	By-pass Paper End Sensor: Detection	←	Detect	Not Detect	9			
		11	By-pass Paper End Sensor: 5V	P			8	By-pass Tray HP Sensor		
		12	By-pass Tray HP Sensor: GND	G			7			
		13	By-pass Tray HP Sensor: Detection	←	Down	Up	6			
		14	By-pass Tray HP Sensor: 5V	P			5			
BCU	CN317	1	By-pass Motor: A Phase	→			4	By-pass Motor		
		2	By-pass Motor: /A Phase	→			3			
		3	By-pass Motor: B Phase	→			2			
		4	By-pass Motor: /B Phase	→			1			

Connector (FROM)		Signal Information					Connector (TO)		
To Connector	Pin No	No	Signal Name	Direction	L	H	No	Pin No	To Connector
BCU:Relay	CN853	1	ID Sensor:+5V	P			1	CN854	ID Sensor
		2	ID Sensor:GND	G			2		
		3	ID Sensor:PWM	→			3		
		4	ID Sensor:FB	←			4		
BCU:Relay	CN856	1	Registration Sensor:GND	G			3	CN855	Registration Sensor
		2	Registration Sensor:Detection	←	Detect	Not Detect	2		
		3	Registration Sensor:+5V	P			1		
BCU:Relay	CN1	1	Right Door Open Switch : GND	G			2	CN2	Right Door Open Switch
		2	Right Door Open Switch : Right Door Open De	←	Close	Open	1		
BCU	CN340	A1	Relay: GND	G			10	CN1	Relay Unit
		A2	Relay: 5V	P			9		
		A3	Relay: N.C.(Shift tray: Set Detection)	←	Set	Not Set	8		
		A4	Relay: Transfer Sensor( # : Position Sensor)	←	Detect	Not Detect	7		
		A5	Relay: Paper Exit Sensor( # : Position Sensor)	←	Detect	Not Detect	6		
		A6	Relay: Transfer Motor: RST( # : Lift Motor: Control B)	→	Reset	Not Reset	5		
		A7	Relay: Transfer Motor: Current switching( # : # : Control A)	→	Power UP	Power DOWN	4		
		A8	Relay: GND	G			3		
		A9	Relay: 24V	P			2		
			N.C.	-			1	CN2	
		B1	Relay: 24V	P			9		
		B2	Relay: GND	G			8		
		B3	Relay: Transfer Motor: Enable	→	Enable	Disabled	7		
		B4	Relay: Set Detection	←	Relay Set	Not Set	6		
		B5	Relay: Paper Exit Solenoid: PWM	→	OFF	ON	5		
		B6	Relay: Transfer Motor: Clock	→			4		
		B7	N.C.	-			3		
		B8	Relay: Transfer Cover Open Detection	←	Close	Open	2		
		B9	Relay: Exit Cover Open Detection	←	Close	Open	1		
Development Bias	T1		HVP:Development Output(-1500~0V)	←				T2	HVP T291
BCU:Relay	CN1	1	PCU:Set Detection: 5V	←	Not Set	Set	1	CN2	PCU
		2	PCU:GND	G			2		
		3	PCU:N.C.	-					
		4	PCU: TD Sensor:FB	←			3		
		5	PCU: +5V	P			4		
		6	PCU:N.C.	-					
BCU:Relay	CN920	1	Duplex Motor: 24VS	P			5	CN922	STM
		2	Duplex Motor: A Phase	→			4		
		3	Duplex Motor: /A Phase	→			6		
		4	Duplex Motor: 24VS	P			2	CN923	Entrance Sensor
		5	Duplex Motor: B Phase	→			3		
		6	Duplex Motor: /B Phase	→			1		
		7	Duplex Unit Entrance Sensor: GND	G			3	CN924	Exit Sensor
		8	Duplex Unit Entrance Sensor: Detection	←	Detect	Not Detect	2		
		9	Duplex Unit Entrance Sensor: 5V	P			1		
		10	Duplex Unit Exit Sensor: GND	G			3		
		11	Duplex Unit Exit Sensor: Detection	←	Detect	Not Detect	2		
		12	Duplex Unit Exit Sensor: 5V	P			1		
	T1		Ground Wire: MT					T2	
	T3		Ground Wire: Entrance Sensor					T4	
	T5		Ground Wire: Exit Sensor					T6	
BCU:Relay	CN1	1	Duplex Unit Entrance Sensor: GND	G			3	CN2	Entrance Sensor
		2	Duplex Unit Entrance Sensor: Detection	←	Detect	Not Detect	2		
		3	Duplex Unit Entrance Sensor: 5V	P			1		

Pin Assignment

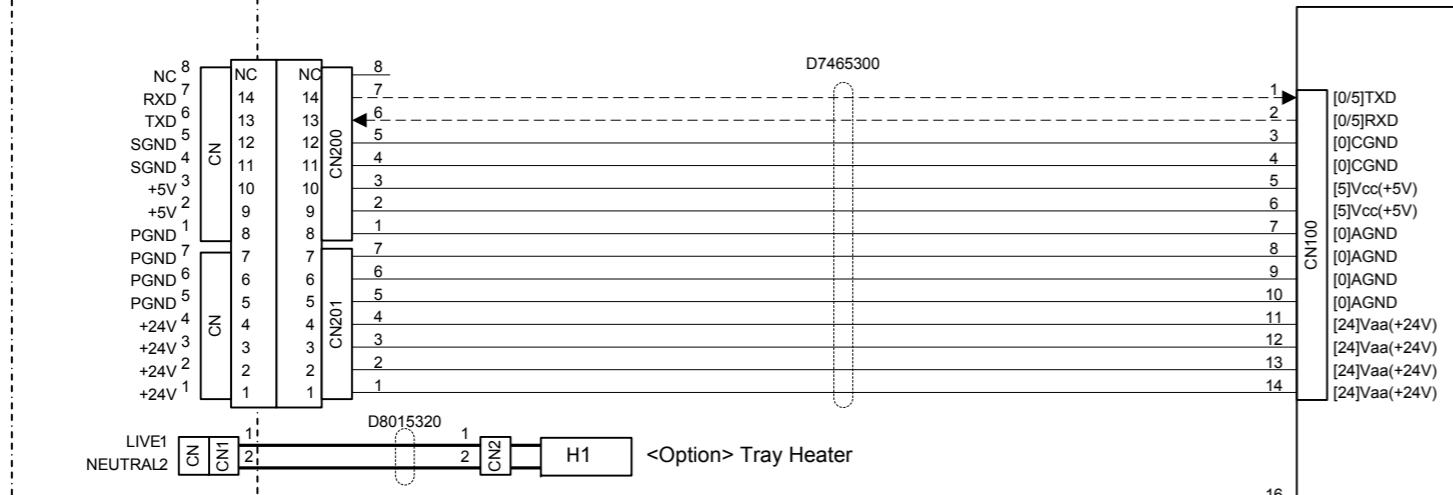
Connector (FROM)		Signal Information					Connector (TO)				
To Connector	Pin No	No	Signal Name	Direction	L	H	No	Pin No	To Connector		
BCU:Relay [CN3]	CN1	1	Paper Feed Pick-up Solenoid:+24VS2	P			2	CN2	Pick-up Solenoid		
		2	Paper Feed Pick-up Solenoid:Control	→			1				
		3	Paper Feed Paper leading edge Sensor:GND	G			3	CN3	Paper Feed Sensor		
		4	Paper Feed Paper leading edge Sensor:Output	←	Detect	Not Detect	2				
		5	Paper Feed Paper leading edge Sensor:5V	P			1				
		6	Vertical Transport Sensor:GND	G			3	CN4	Vertical Transport Sensor		
		7	Vertical Transport Sensor:Detection	←	Detect	Not Detect	2				
		8	Vertical Transport Sensor:+5V	P			1	CN5	Paper End Sensor		
		9	Paper End Sensor:GND	G			3				
		10	Paper End Sensor:Detection	←	Not Detect	Detect	2				
		11	Paper End Sensor:+5V	P			1				
		12	By-pass Tray HP Sensor:GND	G			3				
		13	By-pass Tray HP Sensor:Detection	←	Not Limit	Limit	2				
		14	By-pass Tray HP Sensor:+5V	P			1	CN6	By-pass Tray HP Sensor		
BCU:Relay CN815	CN330	1	1BIN:Invert Signal	→	ON	OFF	7	CN888	1BIN		
		2	1BIN: Transfer Sensor	←	Detect	Not Detect	6				
		3	1BIN:Paper Detection	←	Detect	Not Detect	5				
		4	1BIN: Set Detection	←	Set	Not Set	4				
		5	1BIN:GND	G			3				
		6	1BIN:5VE	P			2				
		7	1BIN:5V	P			1				
		8	1BIN:LED:CATHODE				2			CN889	1BIN LED
		9	1BIN:LED:ANODE				1				
BCU:Relay CN814	CN331	1	Paper Exit Solenoid:+24V	P			2	CN887	Paper Exit Solenoid		
		2	Paper Exit Solenoid:Control	→	ON	OFF	1				
		3	Inverter Motor:An excitation Signal :B Phase	→			6	CN886	Inverter Motor		
		4	Inverter Motor:An excitation Signal :A Phase	→			5				
		5	Inverter Motor:+24V	P			4				
		6	Inverter Motor:+24V	P			3				
		7	Inverter Motor:An excitation Signal :/B Phase	→			2				
		8	Inverter Motor:An excitation Signal :/A Phase	→			1				
		9	Inverter Sensor:GND	G			3	CN885	Inverter Sensor		
		10	Inverter Sensor:Detection	←	Detect	Not Detect	2				
		11	Inverter Sensor:+5V	P			1				
		12	Junction/Inverter UNI:Set Detection	G	Set	Not Set	13				
	T1		electrical ground					CN331			
BCU:Relay [CN19]	CN817	1	By-pass Paper Size Sensor2	←			8	CN3	By-pass Paper Size Sensor		
		2	By-pass Paper Size Sensor1	←			7				
		3	By-pass:GND	G			6				
		4	By-pass Paper Size Sensor4	←			5				
		5	By-pass Paper Size Sensor3	←			4				
		6	By-pass Paper Length Sensor:GND	G			3	By-pass Paper Length Sensor			
		7	By-pass Paper Length Sensor:Detection	←	Detect	Not Detect	2				
		8	By-pass Paper Length Sensor:5V	P			1				
		9	By-pass Paper End Sensor:GND	G			3	CN6	By-pass Paper End Sensor		
		10	By-pass Paper End Sensor:Detection	←	Detect	Not Detect	2				
		11	By-pass Paper End Sensor:5V	P			1	CN7	By-pass Tray HP Sensor		
		12	By-pass Tray HP Sensor:GND	G			3				
		13	By-pass Tray HP Sensor:Detection	←	Down	Up	2				
		14	By-pass Tray HP Sensor:5V	P			1				
		15	By-pass Motor:A Phase	→			4			CN10	By-pass Motor
		16	By-pass Motor:/A Phase	→			3				
		17	By-pass Motor:B Phase	→			2				
		18	By-pass Motor:/B Phase	→			1				
CN3	CN1	1	By-pass Paper Size Sensor2	←			6	CN2	By-pass Paper Size Sensor		
		2	By-pass Paper Size Sensor1	←			5				
		3	By-pass:GND	G			4				
		4	N.C.				3				
		5	By-pass Paper Size Sensor4	←			2				
		6	By-pass Paper Size Sensor3	←			1				
		7	By-pass Paper Length Sensor:GND	G	Detect	Not Detect	3	CN3	By-pass Paper Length Sensor		
		8	By-pass Paper Length Sensor:Detection	←			2				
			By-pass Paper Length Sensor:5V	P		1					

Connector (FROM)		Signal Information					Connector (TO)		
To Connector	Pin No	No	Signal Name	Direction	L	H	No	Pin No	To Connector
SIO	CN318	1	DGND	G			3	CN1	HPS
		2	HPS	←			2		
		3	+5.9	P			1	CN2	AKS
		4	DGND	G			3		
		5	AKS	←			2		
		6	5VE_AKS	P			1		
SIO	CN313	1	DGND	G			3	CN2	APS2
		2	APS2	←	Detect		2		
		3	+3.4VAPS	P			1	CN1	APS1
		4	DGND	G			3		
		5	APS1	←	Detect		2		
		6	+3.4VAPS	P			1		
	7	DGND	G			7			
	8	DGND	G			6			
	CN315	1	LED_PWM	←			13	CN301	SBU
		2	DGND	G			12		
		3	DGND	G			11		
		4	+3.3V	P			10		
		5	+3.3V	P			9		
6		+3.3V	P			8			
7		DGND	G			7			
8	DGND	G			6				
9	+5.9V	P			5				
10	+5.9V	P			4				
11	DGND	G			3				
12	10V	P			2				
13	DGND	G			1				
IPU	CN105	1	Home position sensor	←			15	CN311	SIO
		2	Scanner Motor Reference voltage switching 3	→			14		
		3	Scanner Motor Reference voltage switching 2	→			13		
		4	Scanner Motor Reference voltage switching 1	→			12		
		5	Scanner Motor Reset Signal	→			11		
		6	Scanner Motor Rotation Direction switching S	→			10		
		7	Scanner Motor Clock Signal	→			9		
		8	Scanner Motor Excitation Mode switching 2 S	→			8		
		9	Scanner Motor Excitation Mode switching 1 S	→			7		
		10	Scanner Motor PWM Synchronization Signal	→			6		
		11	+5V	P			5		
		12	ADF.TXD Signal Reading Gate Signal	←			4		
		13	ADF:UART Transmission	→			3		
		14	ADF:UART Reception	←			2		
		15	ADF Power ON Signal	→			1		
		16	For AKS5VEPower	P			30		
		17	Pressure Plate Open Sensor Signal	←			29		
		18	DOC5VEPower	P			28		
		19	ADF Original Set Detection Signal	←			27		
		20	Original size Detection1	←			26		
		21	Original size Detection2	←			25		
		22	Original size Detection3	←			24		
		23	Original size Detection4	←			23		
		24	Original size Detection5	←			22		
		25	Original size Detection ON Signal	→			21		
		26	GND	G			20		
		27	LED ON Signal	→			19		
		28	LED Error Signal	←			18		
		29	GND	G			17		
		30	Scanner Power ON Signal	→			16		
CN106	1	GND	G			1	CN310		
	2	GND(For ADF)	G			2			
	3	24V(For ADF)	P			3			
	4	24V	P			4			

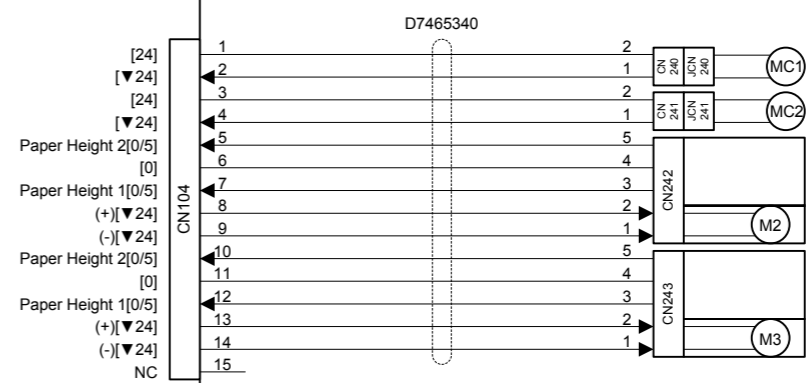
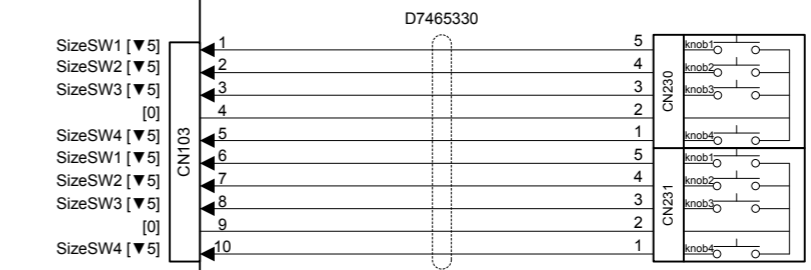
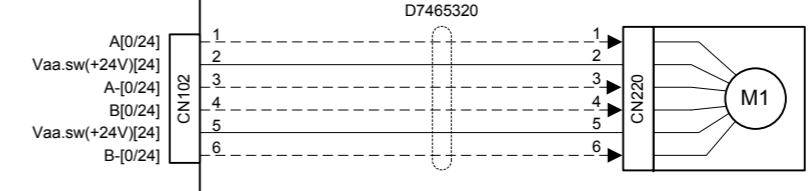
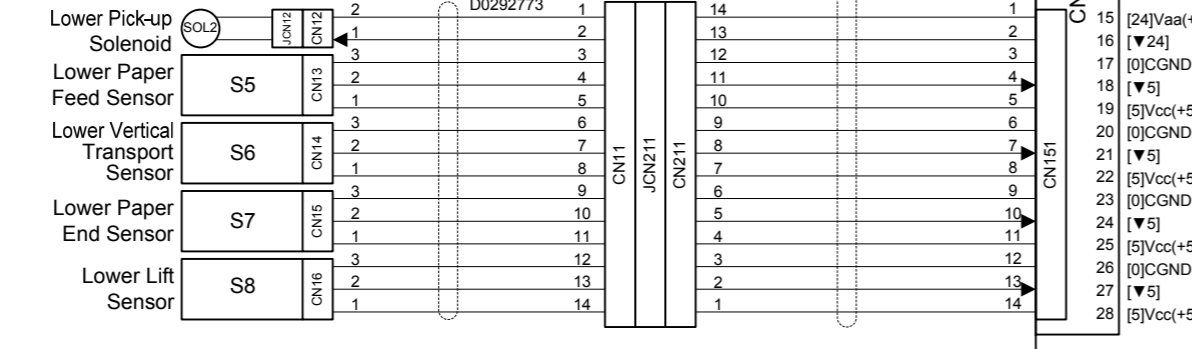
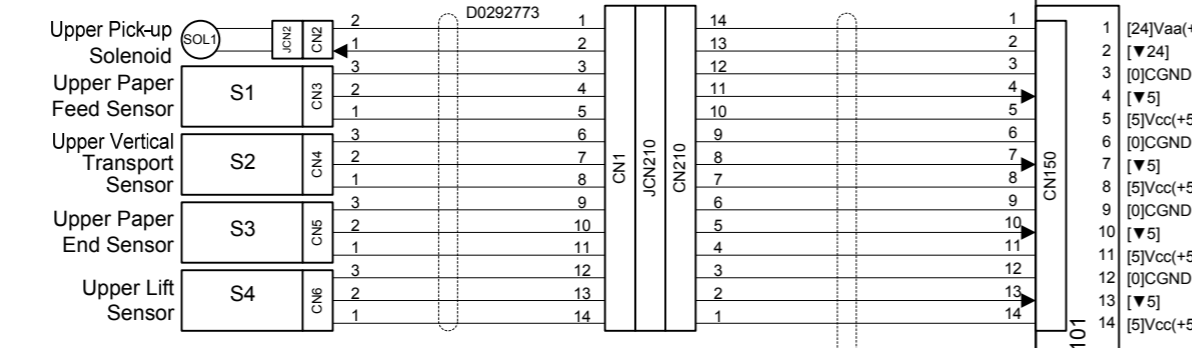
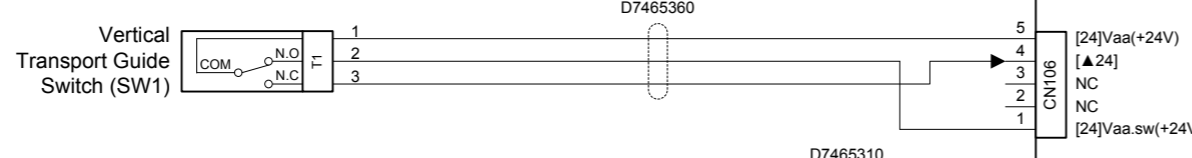
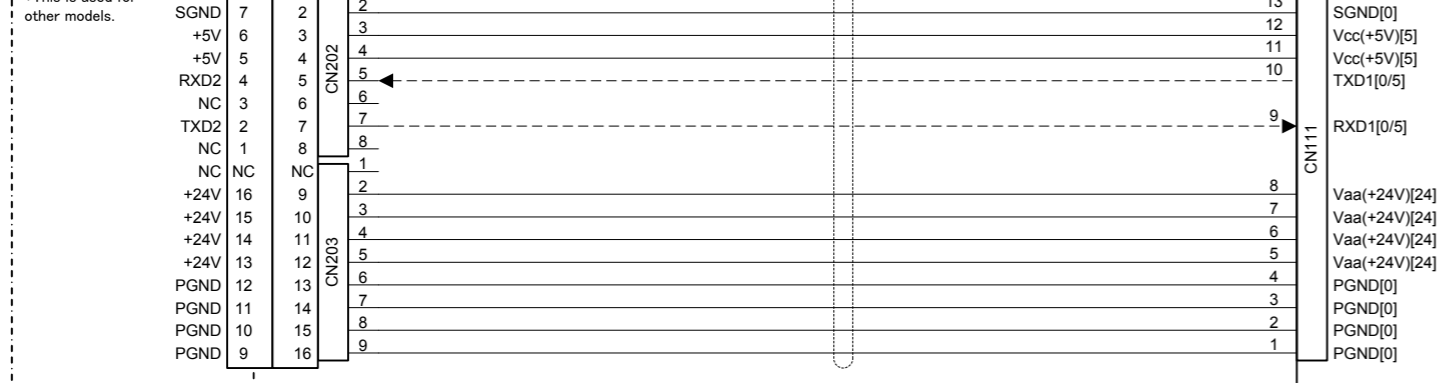
# B801/D580/D746 POINT TO POINT DIAGRAM

Rev. 01/15/2014

[Main Frame]



[External LCT]

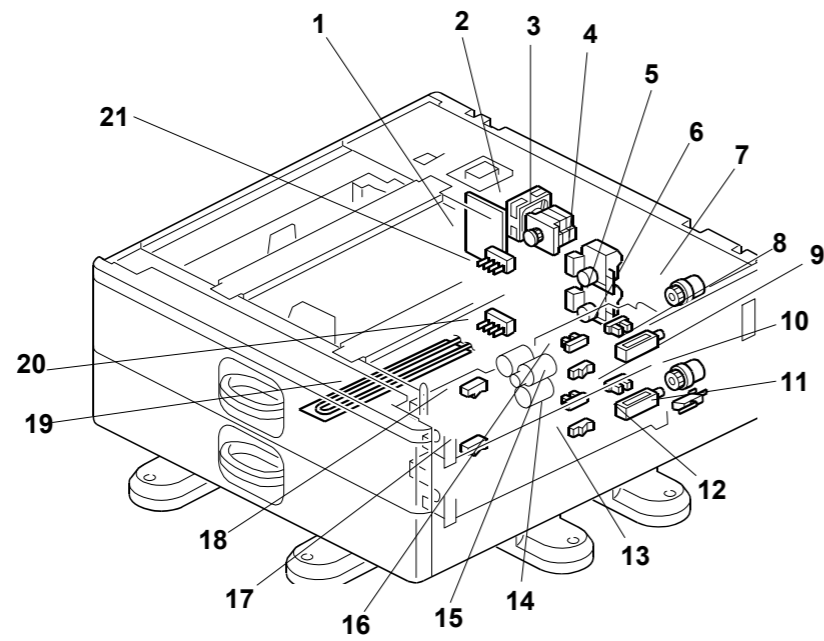


Signal Table	
	AC Line
	DC Line
	Plus Line
	Signal Direction
	Signal Direction
	Ready Low
	Ready High
	Voltage



# ELECTRICAL COMPONENT LAYOUT (B801/D580/D746)

Rev.01/05/2014



Symbol	Name	Index No.	P to P
<b>Motors</b>			
M1	Feed Motor	3	B9
M2	Upper Tray Lift Motor	4	E9
M3	Lower Tray Lift Motor	5	E9
<b>Sensors</b>			
S1	Upper Paper Feed	18	E3
S2	Upper Vertical Transport	15	E3
S3	Upper Paper End	16	F3
S4	Upper Lift	6	F3
S5	Lower Paper Feed	17	F3
S6	Lower Vertical Transport	13	F3
S7	Lower Paper End	14	G3
S8	Lower Lift	9	G3
<b>Solenoids</b>			
SOL1	Lower Pick-up	8	E3
SOL1	Upper Pick-up	12	F3
<b>Switches</b>			
SW1	Vertical Transport Guide	11	D3
SW2	Upper Paper Size	21	C9
SW3	Lower Paper Size	20	D9
<b>Magnetic Clutches</b>			
MC1	Upper Paper Feed	7	E9
MC2	Lower Paper Feed	10	E9
<b>PCBs</b>			
PCB1	Main Board	1	B6
<b>Others</b>			
H1	Optional Tray Heater	19	C3
<b>Fan</b>			
FAN1	Fan Motor	2	F9

1

2

3

4

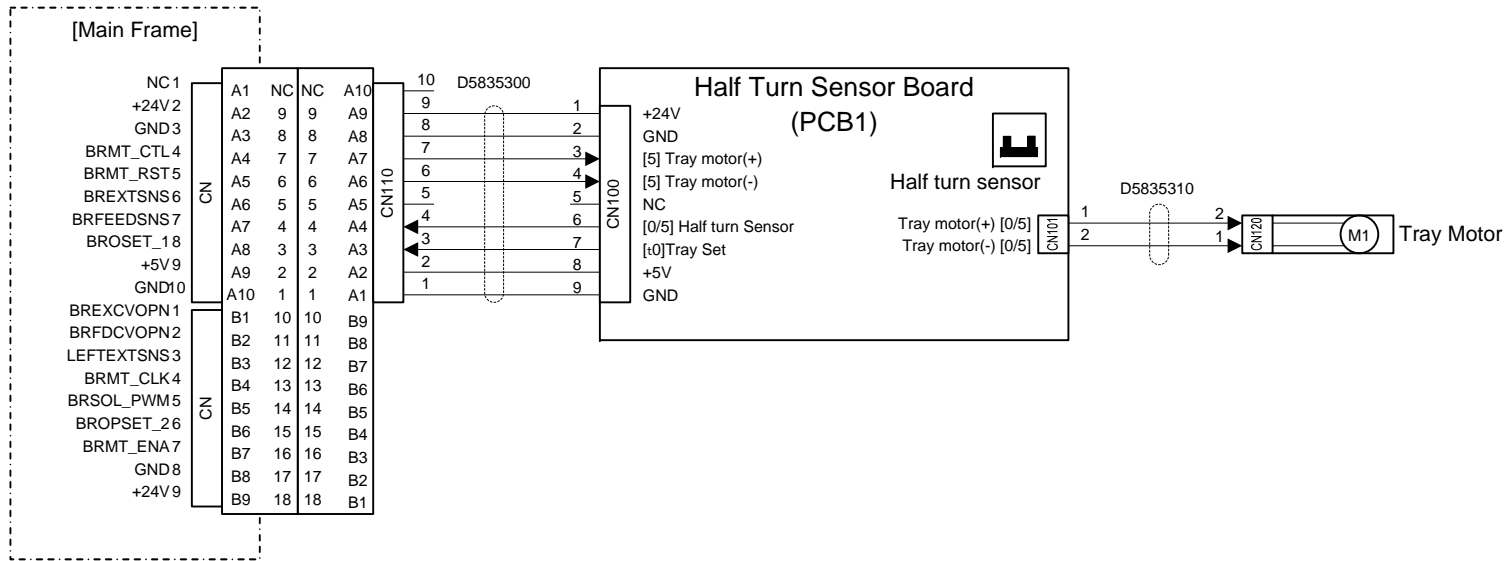
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# D388/D583/D633 POINT TO POINT DIAGRAM

REV.01/14/2014



## Signal Table

	AC Line
	DC Line
	Plus Line
	Signal Direction
	Signal Direction
	Ready Low
	Ready High
	Voltage

1

2

3

4

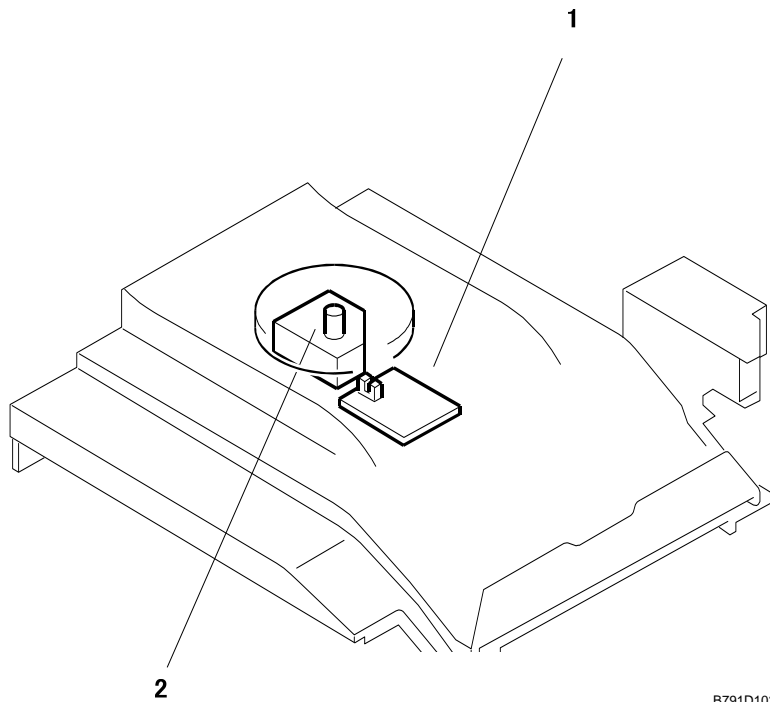
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# D388/D583/D633 ELECTRICAL COMPONENT LAYOUT

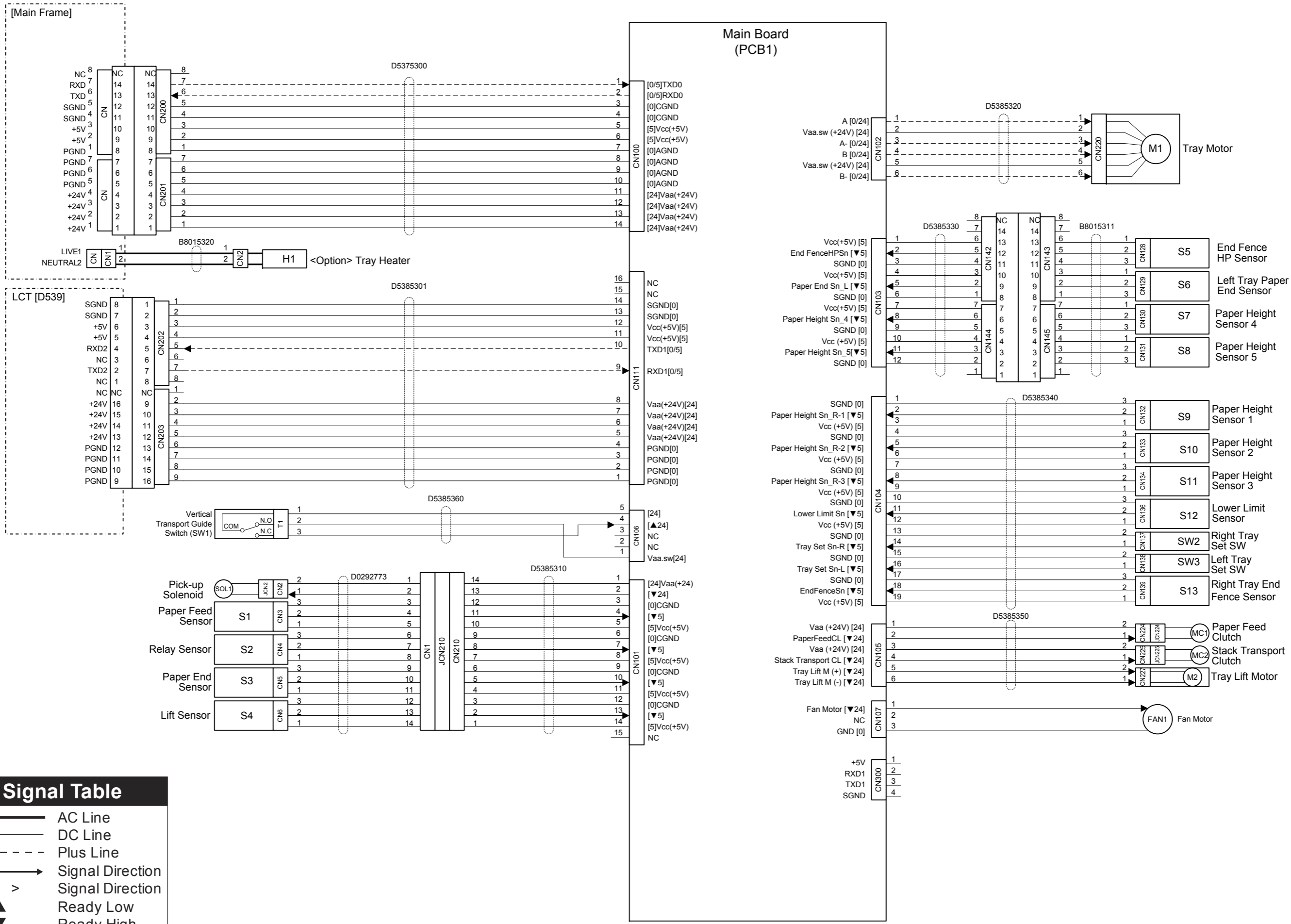
REV. 01/15/2014



B791D102.WMF

Symbol	Name	Index No.	P to P
<b>Motor</b>			
M1	Tray	2	B5
<b>PCB</b>			
PCB1	Half Turn Sensor Board	1	B3

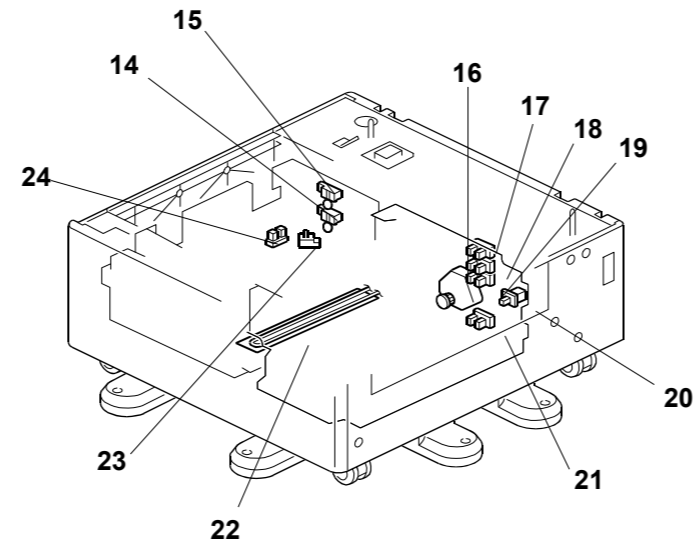
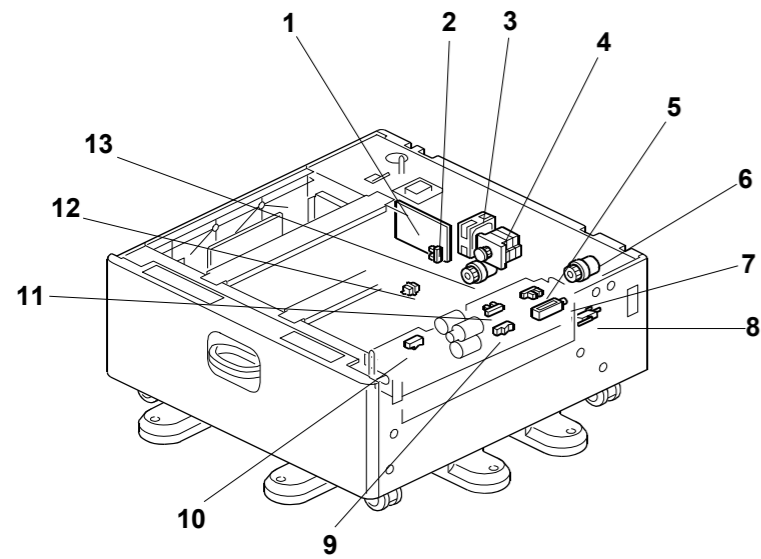
# D538/D581/D747 POINT TO POINT DIAGRAM



Signal Table	
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	DC Line
	Plus Line
	Signal Direction
	Signal Direction
	Ready Low
	Ready High
	Voltage

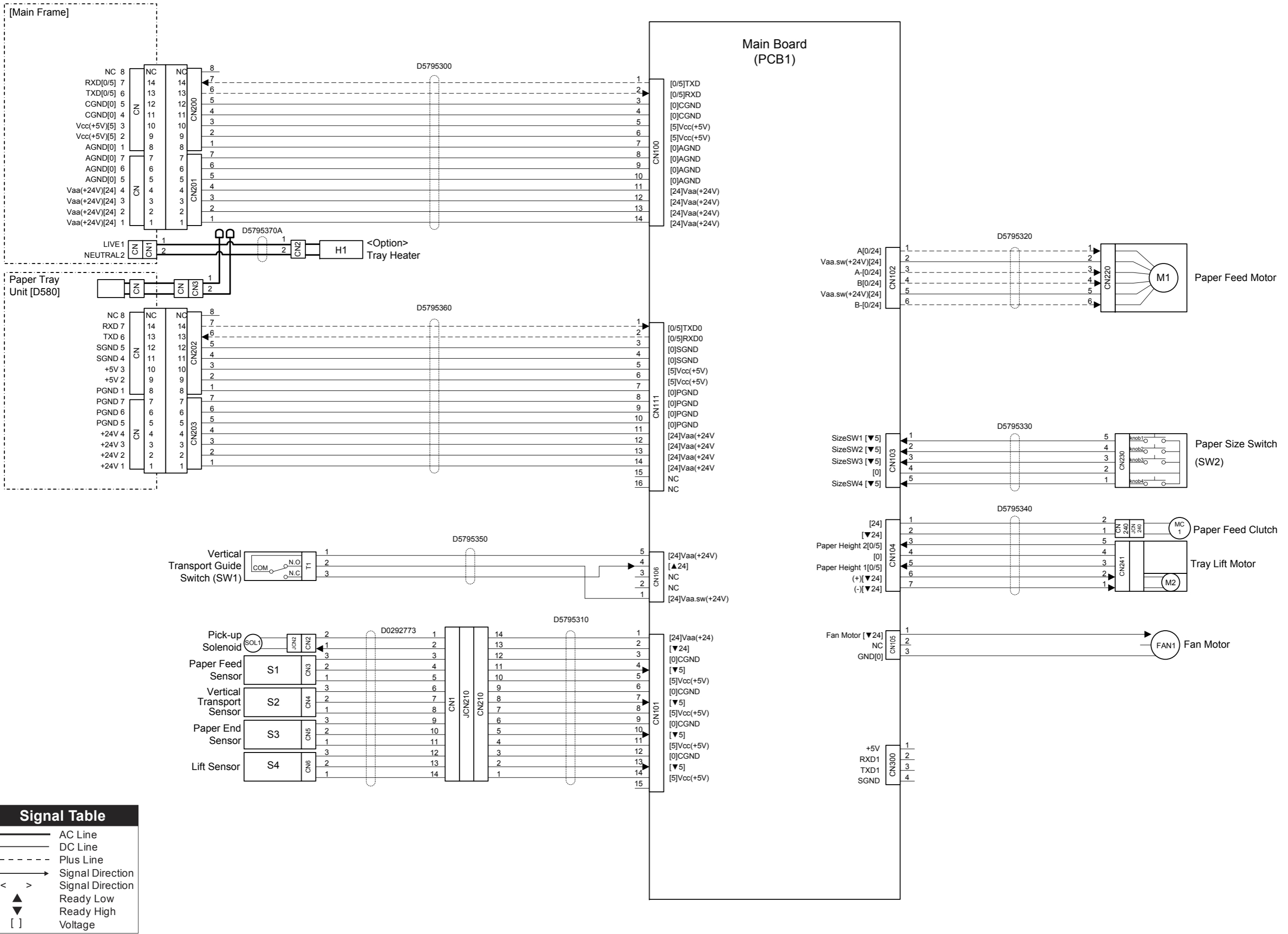
# ELECTRICAL COMPONENT LAYOUT (D538/D581/D747)

REV. 01/15/2014

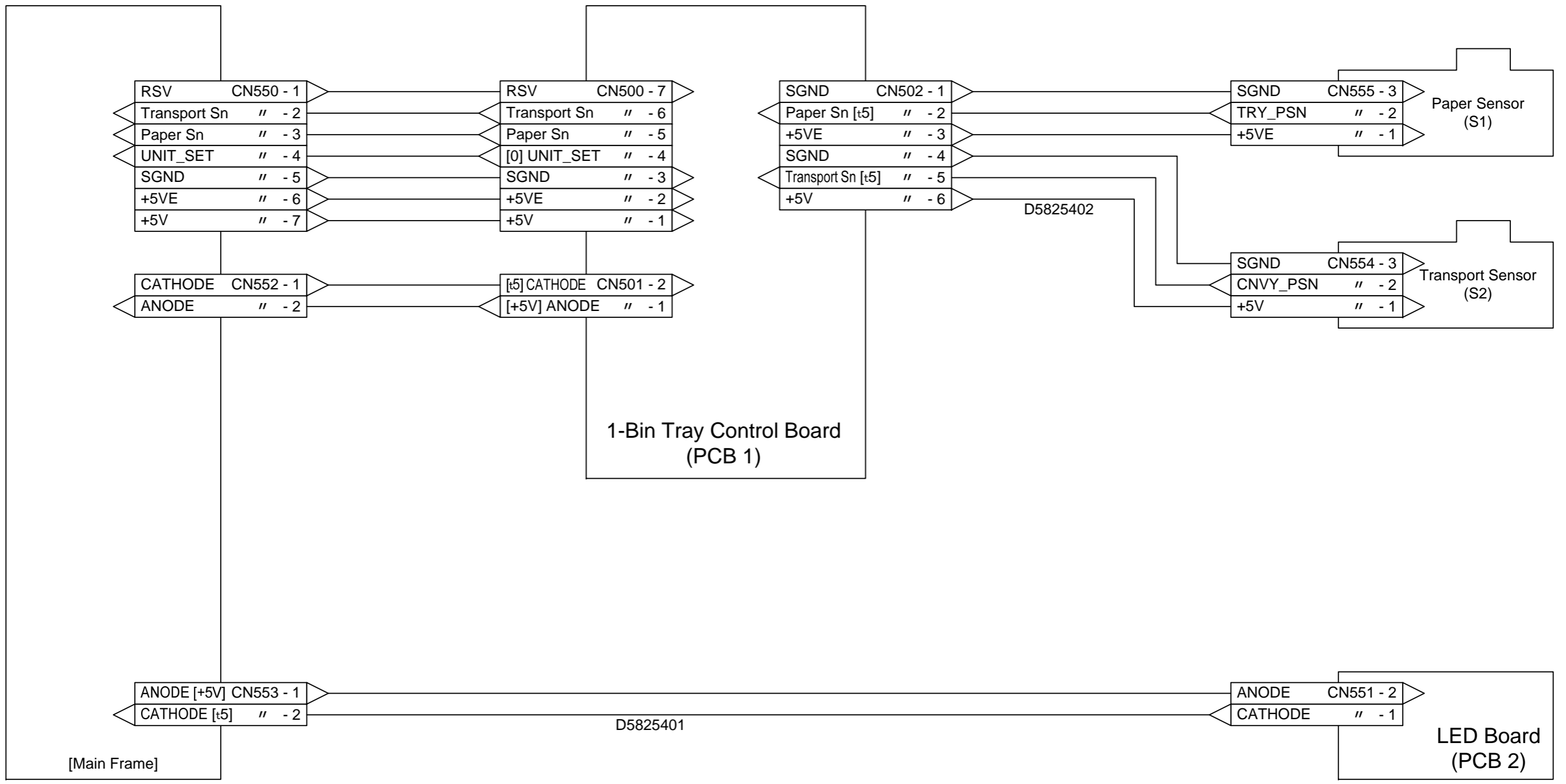


Symbol	Name	Index No.	P to P
<b>Motors</b>			
M1	Tray Motor	4	B9
M2	Tray Lift Motor	16	E9
<b>Sensors</b>			
S1	Paper Feed	10	E3
S2	Relay	9	E3
S3	Paper End	11	F3
S4	Lift	5	F3
S5	End Fence HP	24	C9
S6	Left Tray Paper End	23	C9
S7	Paper Height 4	15	C9
S8	Paper Height 5	14	C9
S9	Paper Height 1	17	D9
S10	Paper Height 2	18	D9
S11	Paper Height 3	19	D9
S12	Lower Limit	21	D9
S13	Right Tray End Fence	2	E9
<b>Solenoids</b>			
SOL1	Pick-up	7	E3
<b>Switches</b>			
SW1	Vertical Guide	8	D3
SW2	Right Tray Set	20	E9
SW3	Left Tray Set	12	E9
<b>Magnetic Clutches</b>			
MC1	Paper Feed	6	E9
MC2	Stack Transport	13	E9
<b>PCBs</b>			
PCB1	Main Board	1	B6
<b>Others</b>			
H1	Optional Tray Heater	22	C3
<b>Fan</b>			
FAN1	Fan Motor	3	F9

# D579 POINT TO POINT DIAGRAM

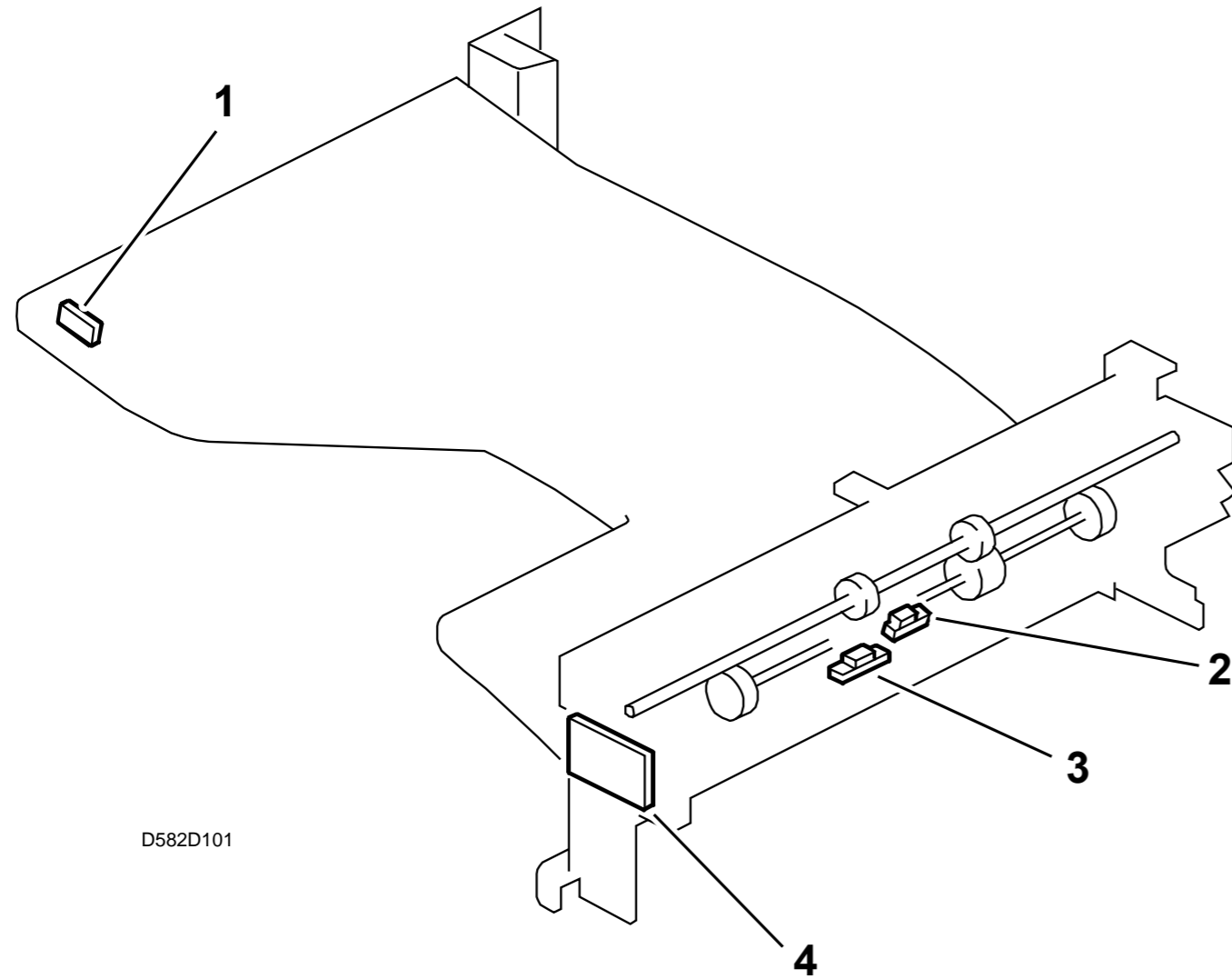


# D582 POINT TO POINT DIAGRAM



SYMBOL TABLE	
— AC LINE	▲ Ready Low
— DC LINE	▼ Ready High
..... Pulse Signal	[ ] Voltage
→ Signal Direction	

# D582 ELECTRICAL COMPONENT LAYOUT

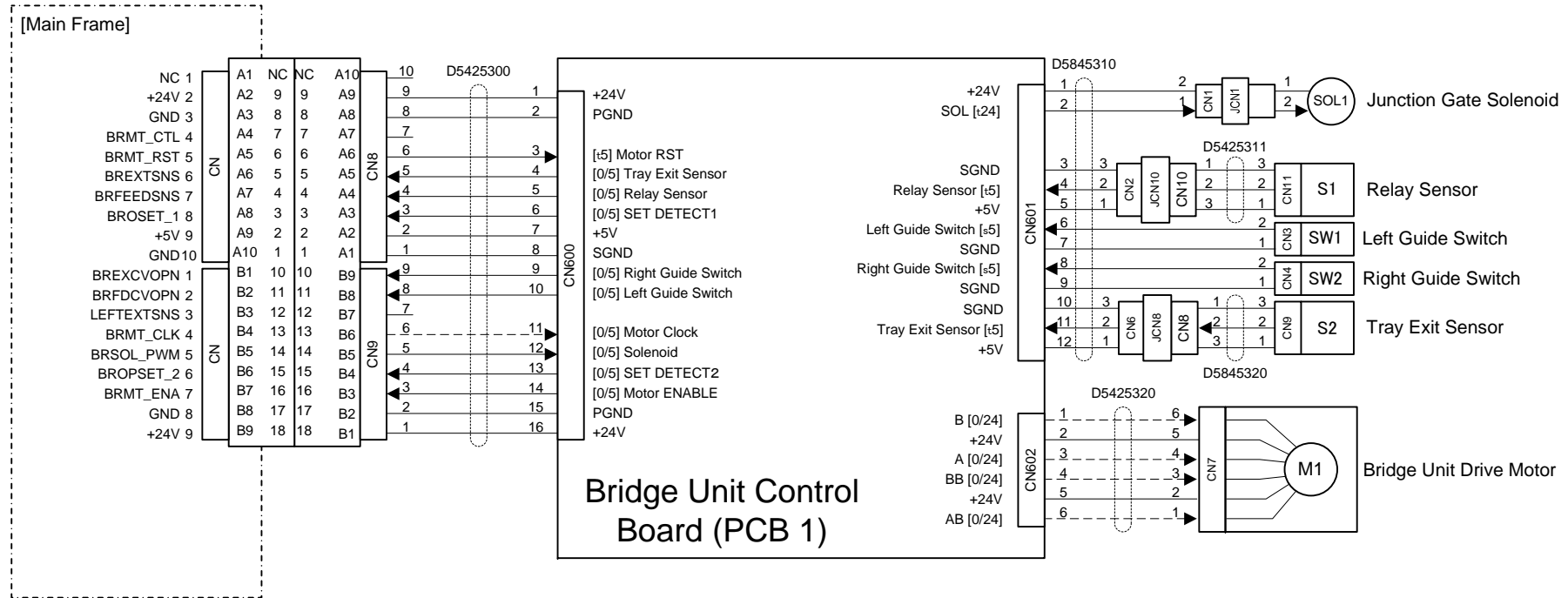


D582D101

Symbol	Name	Index No.	P to P
<b>PCBs</b>			
PCB1	1-Bin Tray Control Board	4	C5
PCB2	LED Board	1	E10
<b>Sensors</b>			
S1	Paper	3	B10
S2	Transport	2	C10

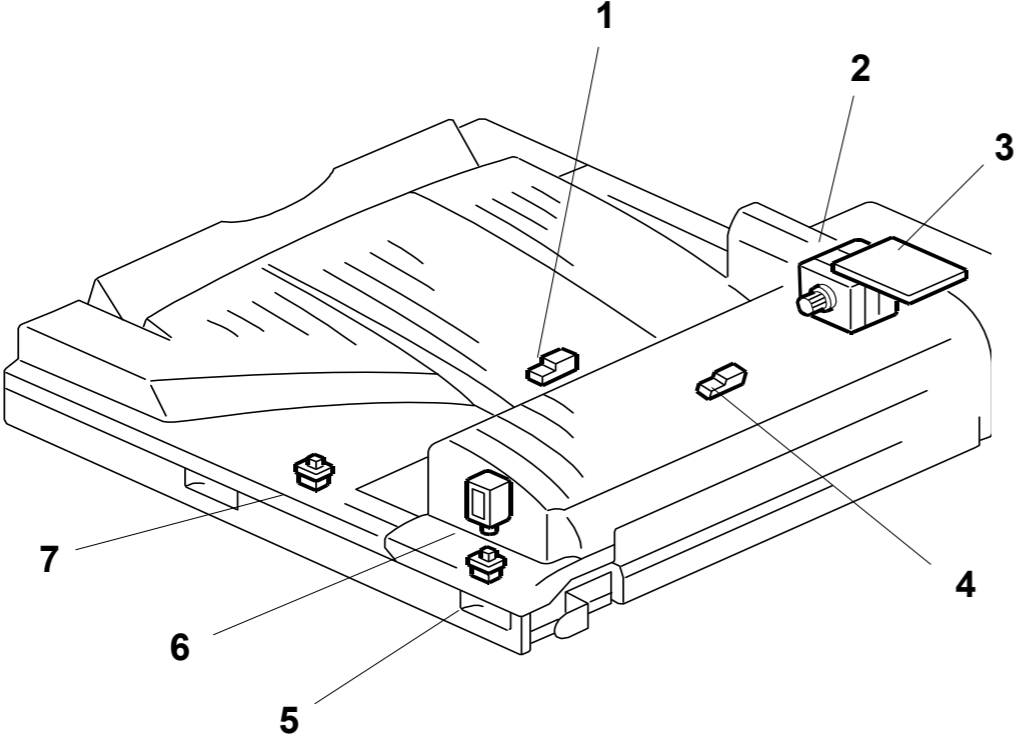


# D584 POINT TO POINT DIAGRAM



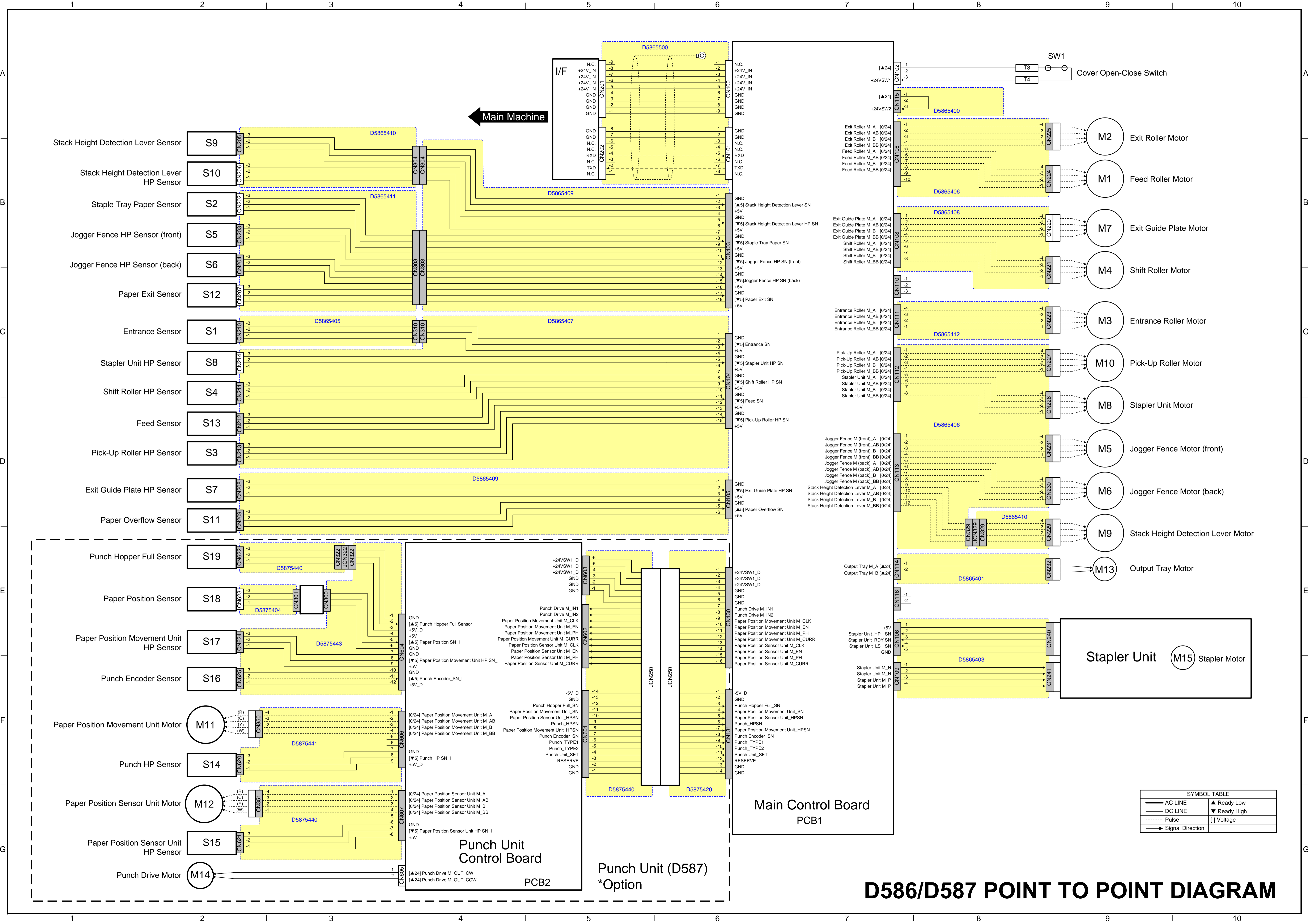
SYMBOL TABLE	
— AC LINE	▲ Ready Low
— DC LINE	▼ Ready High
⋯ Pulse Signal	[ ] Voltage
→ Signal Direction	

# D584 ELECTRICAL COMPONENT LAYOUT



d542d102

Symbol	Name	Index No.	P to P
<b>Motors</b>			
M1	Bridge Unit Drive	2	C6
<b>Sensors</b>			
S1	Relay	1	B6
S2	Tray Exit	4	C6
<b>Switches</b>			
SW1	Right Guide	5	B6
SW2	Left Guide	7	B6
<b>PCBs</b>			
PCB1	Bridge Unit Control	3	C4
<b>Solenoid</b>			
SOL1	Junction Gate	6	B6



← Main Machine

Main Control Board  
PCB1

Punch Unit  
Control Board  
PCB2

Punch Unit (D587)  
\*Option

SYMBOL TABLE	
— AC LINE	▲ Ready Low
— DC LINE	▼ Ready High
--- Pulse	[ ] Voltage
→ Signal Direction	

# D586/D587 POINT TO POINT DIAGRAM

# ELECTRICAL COMPONENT LAYOUT (D586/D587)

Symbol	Index No.	Description	P to P
<b>Motors</b>			
M1	Fig 1-4	Feed Roller Motor	B9
M2	Fig 1-5	Exit Roller Motor	A9
M3	Fig 1-1	Entrance Roller Motor	C9
M4	Fig 2-4	Shift Roller Motor	B9
M5	Fig 3-7	Jogger Fence Motor (front)	D9
M6	Fig 3-8	Jogger Fence Motor (back)	D9
M7	Fig 2-5	Exit Guide Plate Motor	B9
M8	Fig 3-9	Stapler Unit Motor	D9
M9	Fig 4-3	Stack Height Detection Lever Motor	E9
M10	Fig 2-6	Pick-up Roller Motor	C9
M11	Fig 5-10	Paper Position Movement Unit Motor	F2
M12	Fig 5-6	Paper Position Sensor Unit Motor	G2
M13	Fig 4-7	Output Tray Motor	E9
M14	Fig 5-2	Punch Drive Motor	G2
M15	Fig 3-4	Stapler Motor	F9
<b>PCBs</b>			
PCB1	Fig 4-5	Control Board (Main)	A6
PCB2	Fig 5-4	Control Board (Punch)	E4
<b>Sensors</b>			
S1	Fig 1-3	Entrance Sensor	C2
S2	Fig 3-2	Paper Exit Sensor	B2
S3	Fig 2-1	Pick-up Roller HP Sensor	D2
S4	Fig 2-3	Shift Roller HP Sensor	C2
S5	Fig 3-6	Jogger Fence HP Sensor (front)	B2
S6	Fig 3-1	Jogger Fence HP Sensor (back)	B2
S7	Fig 2-2	Exit Guide Plate HP Sensor	D2
S8	Fig 3-5	Stapler Unit HP Sensor	C2
S9	Fig 4-2	Stack Height Detection Lever Sensor	B2
S10	Fig 4-1	Stack Height Detection Lever HP Sensor	B2
S11	Fig 4-6	Paper Overflow Sensor	D2
S12	Fig 3-3	Staple Tray Paper Sensor	C2
S13	Fig 1-2	Feed Sensor	D2
S14	Fig 5-3	Punch HP Sensor	F2
S15	Fig 5-7	Paper Position Sensor Unit HP Sensor	G2
S16	Fig 5-1	Punch Encoder Sensor	F2
S17	Fig 5-9	Paper Position Movement Unit HP Sensor	E2
S18	Fig 5-5	Paper Position Sensor	E2
S19	Fig 5-8	Punch Hopper Full Sensor	E2
<b>Switch</b>			
SW1	Fig 4-4	Cover Open-Close Switch	A8

D586D151

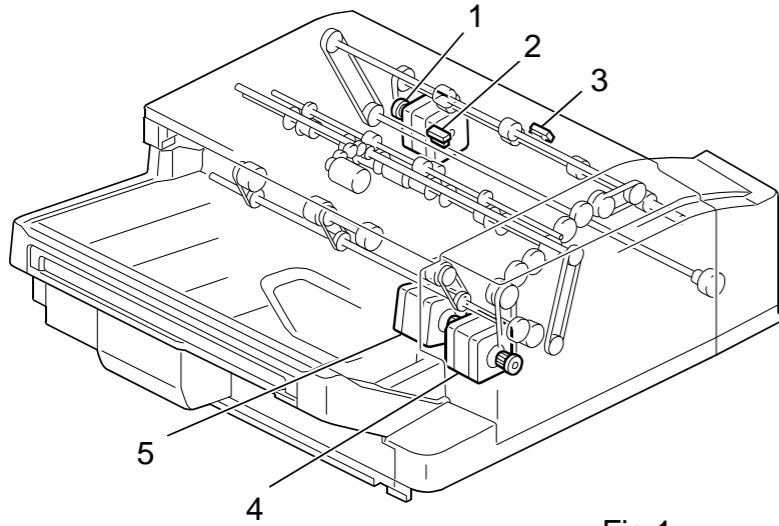


Fig 1

D586D152

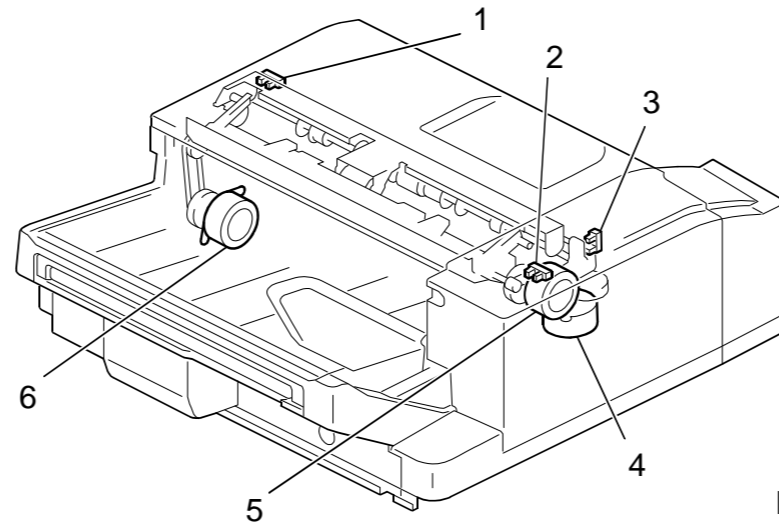


Fig 2

D586D153

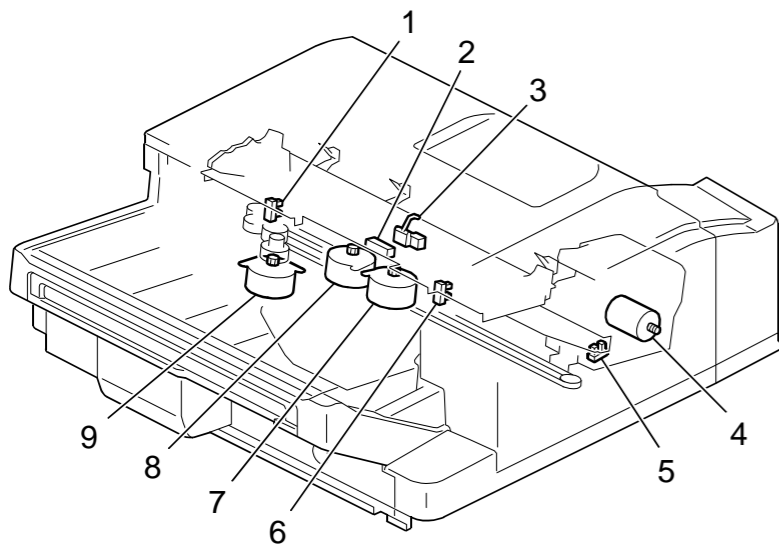


Fig 3

D586D154

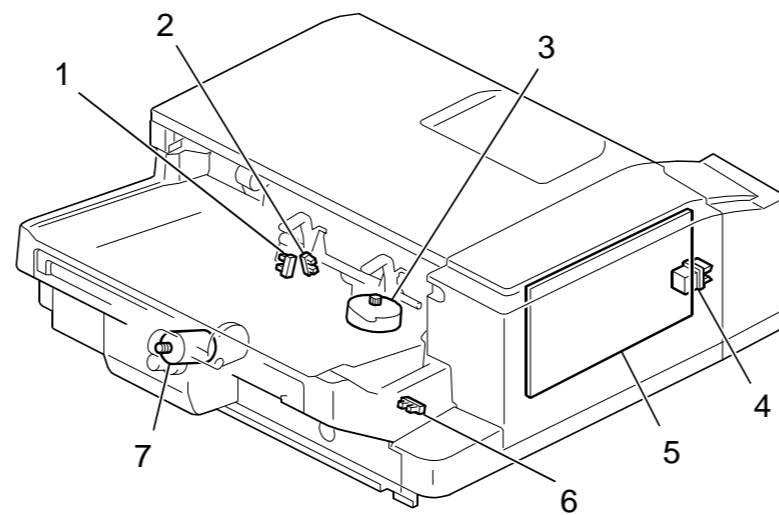


Fig 4

D587D103

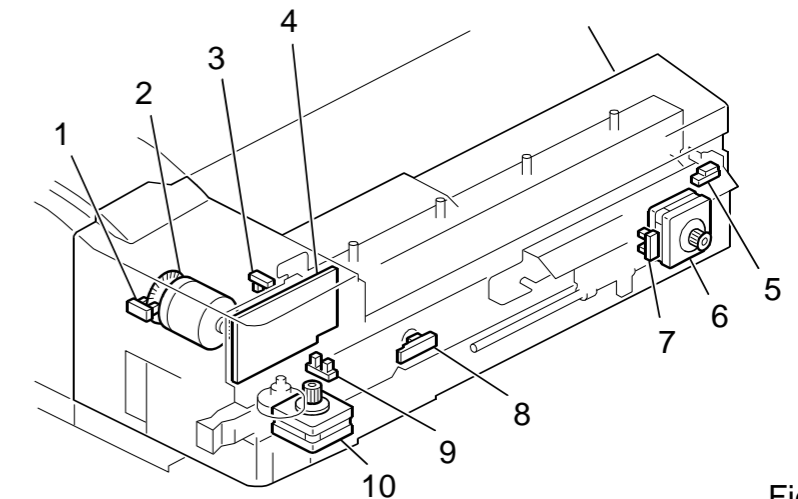
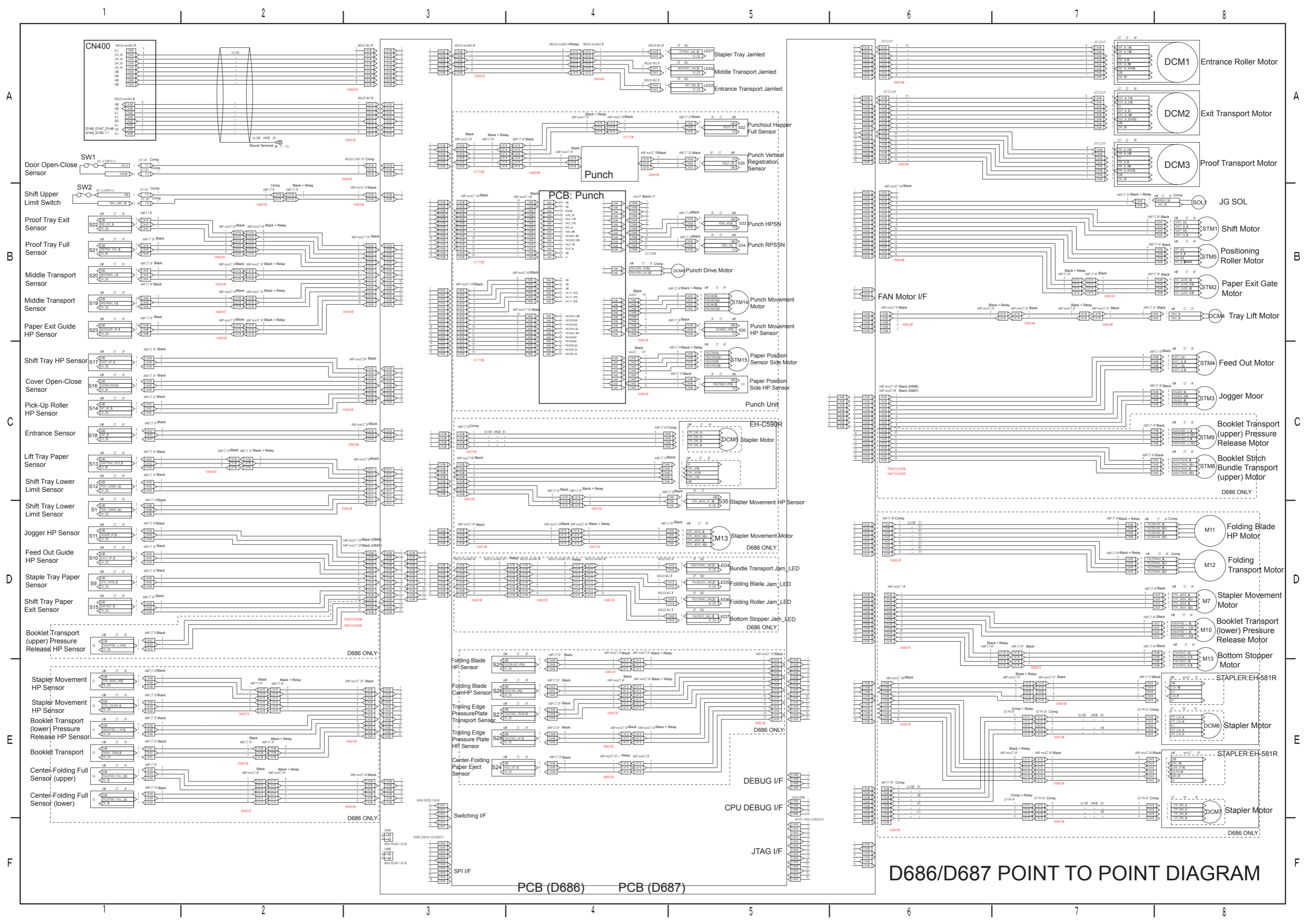


Fig 5



**D686/D687 POINT TO POINT DIAGRAM**

PCB (D686)    PCB (D687)

A

A

B

B

C

C

D

D

E

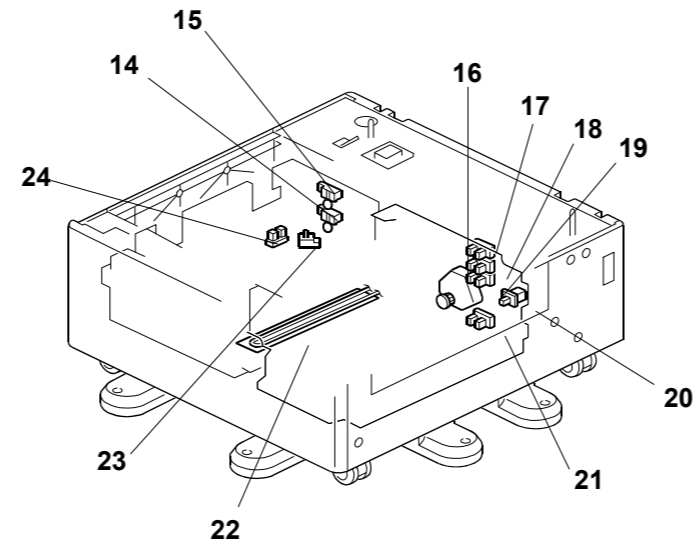
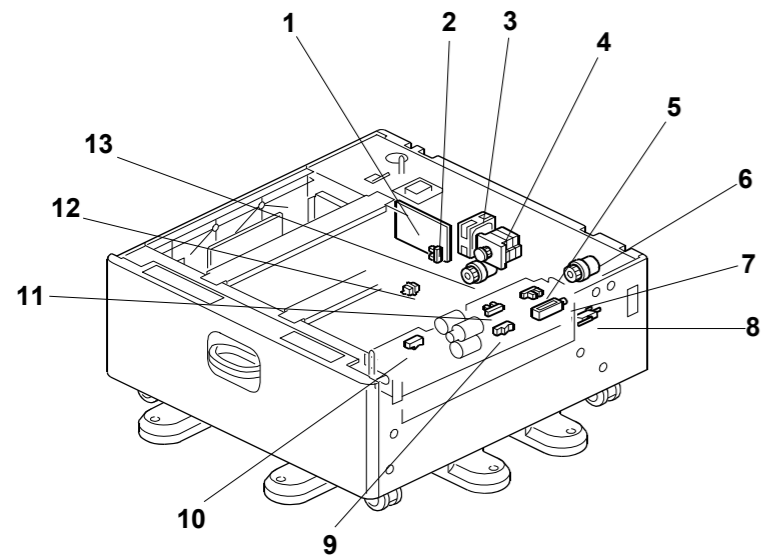
E

F

F

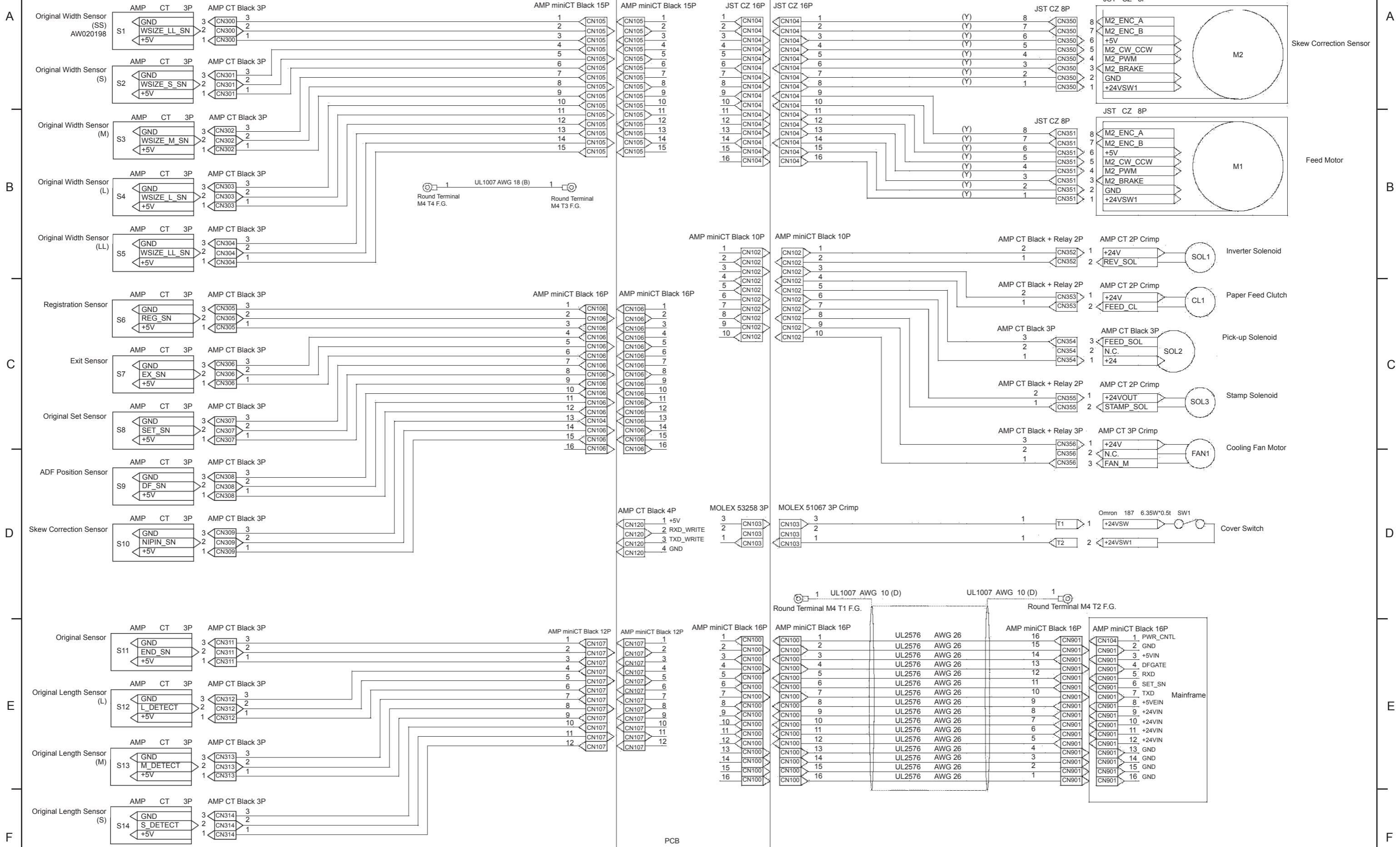


# ELECTRICAL COMPONENT LAYOUT (D747)



Symbol	Name	Index No.	P to P
<b>Motors</b>			
M1	Tray Motor	4	B9
M2	Tray Lift Motor	16	E9
<b>Sensors</b>			
S1	Paper Feed	10	E3
S2	Relay	9	E3
S3	Paper End	11	F3
S4	Lift	5	F3
S5	End Fence HP	24	C9
S6	Left Tray Paper End	23	C9
S7	Paper Height 4	15	C9
S8	Paper Height 5	14	C9
S9	Paper Height 1	17	D9
S10	Paper Height 2	18	D9
S11	Paper Height 3	19	D9
S12	Lower Limit	21	D9
S13	Right Tray End Fence	2	E9
<b>Solenoids</b>			
SOL1	Pick-up	7	E3
<b>Switches</b>			
SW1	Vertical Guide	8	D3
SW2	Right Tray Set	20	E9
SW3	Left Tray Set	12	E9
<b>Magnetic Clutches</b>			
MC1	Paper Feed	6	E9
MC2	Stack Transport	13	E9
<b>PCBs</b>			
PCB1	Main Board	1	B6
<b>Others</b>			
H1	Optional Tray Heater	22	C3
<b>Fan</b>			
FAN1	Fan Motor	3	F9

# D779 POINT TO POINT DIAGRAM



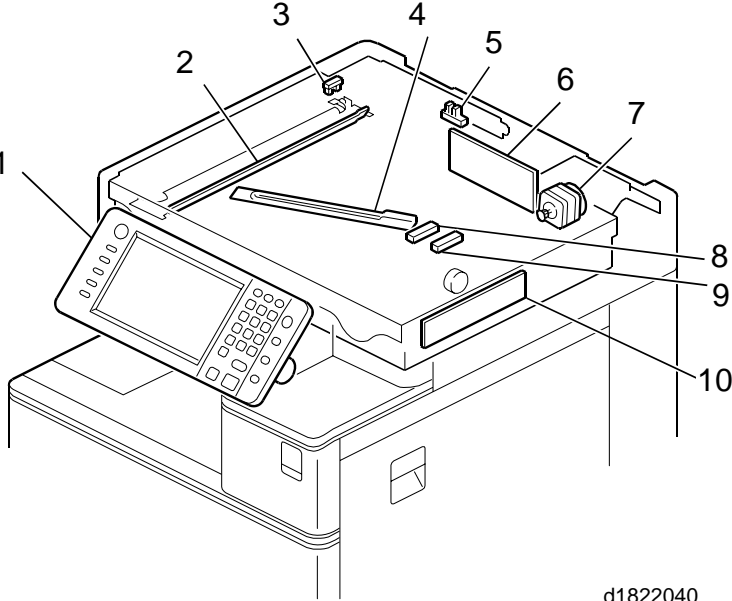


Pin Assignment

Connector (FROM)		Signal Information				Connector (TO)			
To Connector	Pin No	No	Signal Name	Direction	L	H	No	Pin No	To Connector
SIO	CN314	6	BB(SIO)	→			1	CN1	STM
		5	+24VA	P			2		
		4	B Phase	→			3		
		3	A Phase	→			4		
		2	+24VA	P			5		
		1	AB(SIO)	→			6		
SIO	CN317	1	GND	G			10	CN350	LED-B
		2	LED Drive	←			9		
		3	LED Drive	←			8		
		4	LED Drive	←			7		
		5	LED Drive Power	P			6		
		6	LED Drive Power	P			5		
		7	LED Drive	←			4		
		8	LED Drive	←			3		
		9	LED Drive	←			2		
		10	GND	G			1		
IPU	CN104	A1	GND	G			B10	CN300	SBU
		A2	F_TA-	←			B9		
		A3	F_TB-	←			B8		
		A4	F_TC-	←			B7		
		A5	F_LVCK-	←			B6		
		A6	F_TD-	←			B5		
		A7	F_TE-	←			B4		
		A8	SFGATE_N	→	L(Original field)		B3		
		A9	SYDI_SBU	→			B2		
		A10	SYDO_SBU	→			B1		
		B1	SYCLK_SBU	→			A10		
		B2	XSYCS_SBU	→			A9		
		B3	SHGATE_N	→			A8		
		B4	F_TE+	←			A7		
		B5	F_TD+	←			A6		
		B6	F_LVCK+	←			A5		
		B7	F_TC+	←			A4		
		B8	F_TB+	←			A3		
		B9	F_TA+	←			A2		
		B10	GND	G			A1		
LDB	CN402	1	DETP_N:Synchronization Detection Signal	←	Synchronization Detection	-	3	CN230	Synchronization Detection
		2	LD5V:Power	PO			2		
		3	GND	G			1		
IPU	CN112	1	5VS:LD Power	PO			10	CN401	LDB
		2	LDD_N:Image data Differential Signal (-)	→			9		
		3	LDD:Image data Differential Signal (+)	→			8		
		4	DETP N:Synchronization Detection Signal	←	Synchronization Detection	-	7		
		5	VLDERR:Door Open Detection Signal	←	Open	Close	6		
		6	LDERR_N:LD Error Detection Output	←	LD Error	Normal	5		
		7	LDOFF:LD Extinction Control	→	LD Extinction OFF	LD OFF(Forcing)	4		
		8	APCEN_N:APC Control Signal	→	APC Sample	APC Hold	3		
		9	GND	G			2		
		10	LDLVL:Light Intensity Adjustment Voltage	→	Analog voltage	Analog voltage	1		
		11	FGATE Signal Output(For Testing)	→					
IPU:Relay CN809	CN831	1	Polygon Mirror Motor:24V	PO			5	CN830	Polygon Mirror Motor
		2	Polygon Mirror Motor:GND	G			4		
		3	Polygon Mirror Motor:Start	→	Rotation	Stop	3		
		4	Polygon Mirror Motor: Synchronization	←	Synchronization	Unlocked	2		
		5	Polygon Mirror Motor: Clock	→	-	-	1		

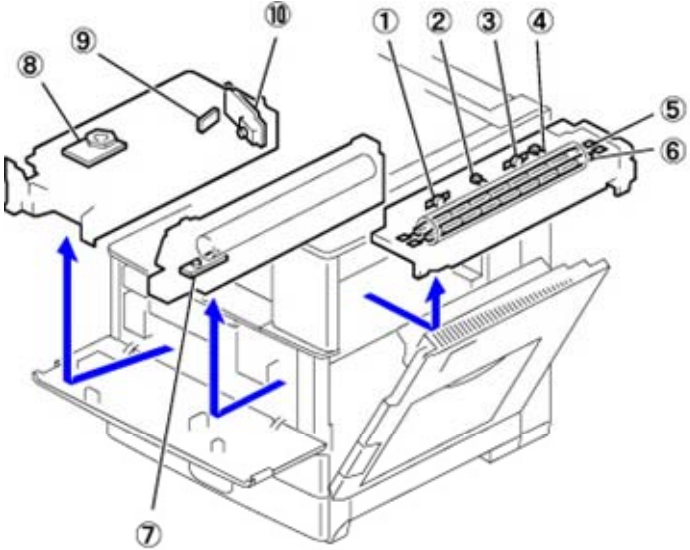
Connector (FROM)		Signal Information				Connector (TO)					
To Connector	Pin No	No	Signal Name	Direction	L	H	No	Pin No	To Connector		
IPU	CN107	1	GND	G			15	CN2	OPU		
		2	GND	G			14				
		3	GND	G			13				
		4	SDMODE_N	→			12				
		5	LDET_IN_N	←			11				
		6	ENG_ENABLE_N	→			10				
		7	PONOPE_N	→			9				
		8	ECO_SW_N	←			8				
		9	POKUSB	→			7				
		10	OPE_CTLERR_N	→			6				
		11	OPE_LED_N	→			5				
		12	5VX	P			4				
		13	5VX	P			3				
		14	5VX	P			2				
		15	5VX	P			1				
BCU	CN108	1	5VX_LPS	P			1	CN1			
		2	USB0D-	B			2				
		3	USB0D+	B			3				
		4	GND	G			4				
BCU	CN318	1	Duplex FAN	→	OFF	ON	3	CN1	Duplex FAN		
		2	Duplex FAN: Lock detection	←	Normal	Trouble	2				
		3	GND	G			1				
BCU Relay	CN1	3	Motor (MAIN)	P			—	T5	Motor (MAIN)		
		1	Thermo (MAIN)	P			—	T2	Thermo (MAIN)		
		9	Thermistor1(+)	←			1	CN2	Thermistor1		
		14	Thermistor1(-)	←			3				
		5	Connection Detection	→			10	CN1	Connection Detection		
		G	FG				—	T3			
		4	Heater (SUB)	P			—	T4	Heater (SUB)		
		2	Thermo (SUB)	P			—	T1	Thermo (SUB)		
		8	Thermistor2(+)	←			1	CN3	Thermistor2		
		13	Thermistor2(-)	←			3				
		BCU Relay	CN1	3	Motor (MAIN)	P			—	T5	Motor (MAIN)
				1	Thermo (MAIN)	P			—	T2	Thermo (MAIN)
				9	Thermistor1(+)	←			1	CN2	Thermistor1
14	Thermistor1(-)			←			3				
5	Connection Detection			→			11	CN1	Connection Detection		
G	FG						—	T3			
4	Heater (SUB)			P			—	T4	Heater (SUB)		
2	Thermo (SUB)			P			—	T1	Thermo (SUB)		
8	Thermistor2(+)			←			1	CN3	Thermistor2		
13	Thermistor2(-)			←			3				
Charge Bias Transfer Bias Separation Bias	T				HVP:Charge Output(-2500~0V)	←			Red	T	HVP T292
					HVP:Transfer Output(-2000~4000V)	←			Yellow	T	HVP T293
					HVP:Separation Output(-4000~0V)	←			White	T	HVP T294

# D182/183/184 ELECTRICAL COMPONENT LAYOUT (1/2)



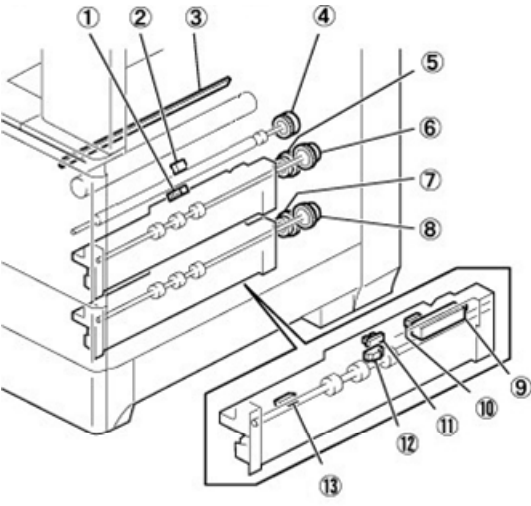
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**Fig-1**



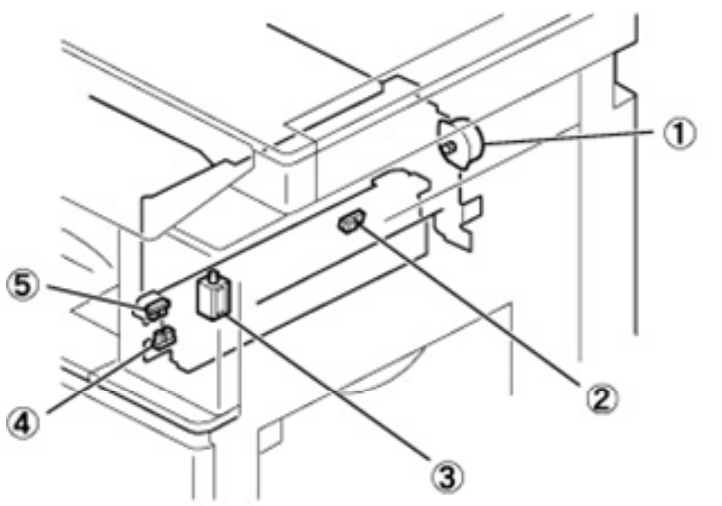
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**Fig-2**



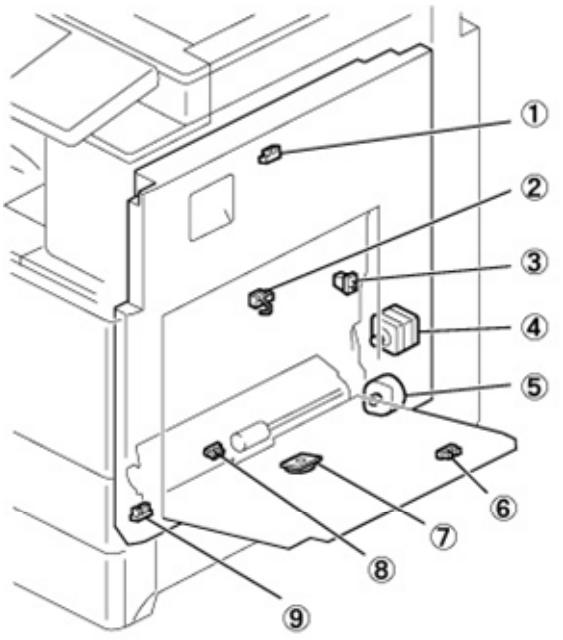
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**Fig-3**



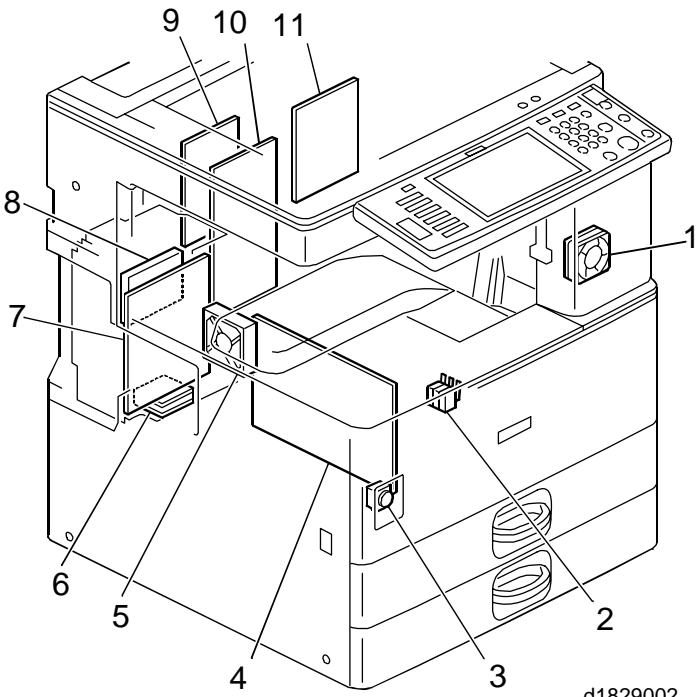
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**Fig-4**



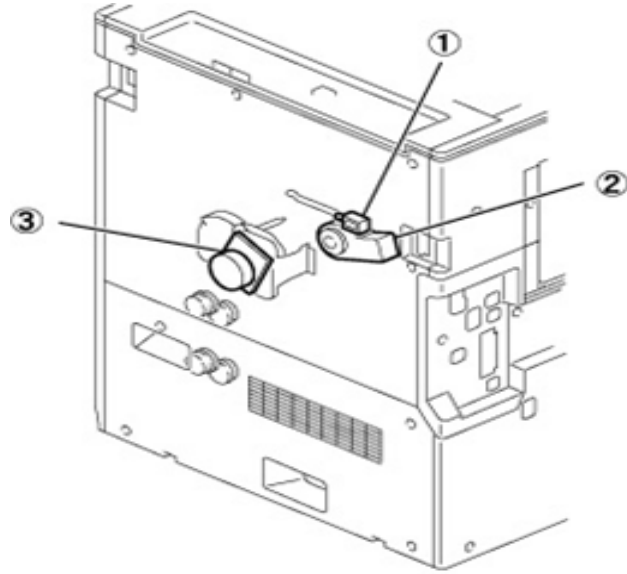
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**Fig-5**



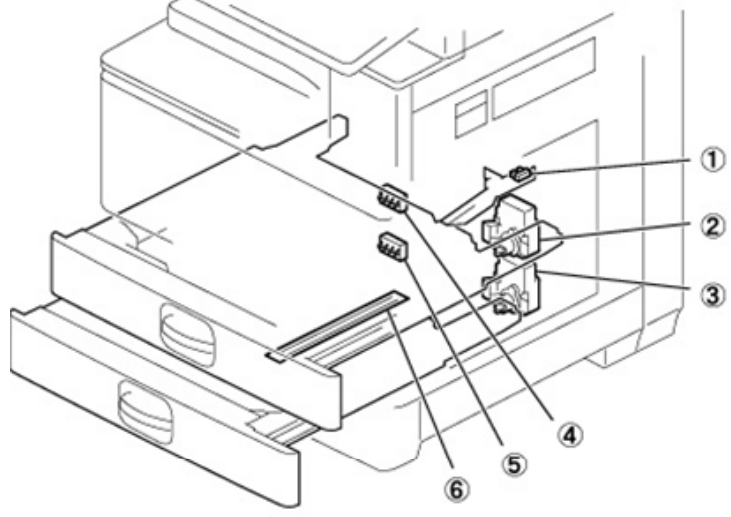
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**Fig-6**



d120v107.jpg

**Fig-7**



d120v106.jpg

**Fig-8**

# D182/183/184 ELECTRICAL COMPONENT LAYOUT (2/2)

Symbol	Index No.	Name	P to P	Page
<b>PCBs</b>				
PCB1	F6-9	BCU	4C	1/2
PCB2	F1-6	SIO	8C	1/2
PCB3	F1-10	SBU	8C	1/2
PCB4	F6-10	IPU	7C	1/2
PCB5	F2-10	LDB	8C	1/2
PCB6	F1-1	OPU	8D	1/2
PCB7	F6-4	PSU	6E	1/2
PCB8	F6-7	CTL	6C	2/2
PCB9	F6-11	HVP	3F	1/2
Symbol	Index No.	Name	P to P	Page
<b>Heaters</b>				
H1	F2-5	Fusing Heater (Main)	7E	1/2
H2	F2-6	Fusing Heater (Sub)	7E	1/2
H3	F1-4	Anti-Condensation Heater (Option)	8F	1/2
H4	F8-6	Tray Heater(Option)	8F	1/2
Symbol	Index No.	Name	P to P	Page
<b>Sensors</b>				
S1	F8-1	Small Paper Size Sensor	3B	1/2
S2	F8-4	1st Tray Paper Size Sensor	3B	1/2
S3	F8-5	2nd Tray Paper Size Sensor	3B	1/2
S4,S5	F8-2	1st Paper Height Sensor 1,2 (Tray Lift Motor)	3B	1/2
S6,S7	F8-3	2ndPaper Height Sensor 1,2 (Tray Lift Motor)	3B	1/2
S8	F3-10	2nd Paper Overflow Sensor	2B	1/2
S9	F3-11	2nd Paper End Sensor	2B	1/2
S10	F3-12	2nd Vertical Transport Sensor	2B	1/2
S11	F3-13	2nd Paper Feed Sensor	2B	1/2
S12	F3-10	1st Paper Overflow Sensor	2C	1/2
S13	F3-11	1st Paper End Sensor	2C	1/2
S14	F3-12	1st Vertical Transport Sensor	2C	1/2
S15	F3-13	1st Paper Feed Sensor	2C	1/2
S16	F5-1	Duplex Unit Entrance Sensor	1C	1/2
S17	F5-2	Duplex Unit Exit Sensor	2D	1/2
S18	F5-9	By-pass Tray HP Sensor	2D	1/2
S19	F5-8	By-pass Paper End Sensor	2D	1/2
S20	F5-6	By-pass Paper Length Sensor	1D	1/2
S21	F5-7	By-pass Paper Size Sensor	1D	1/2
S22	F4-5	Paper Exit Sensor	2F	1/2
S23	F4-4	Paper Overflow Sensor	2F	1/2
S24	F2-7	TD Sensor	1D	1/2
S25	F3-2	ID Sensor	1E	1/2
S26	F3-1	Registration Sensor	1E	1/2
S27	F4-2	Inverter Sensor	7A	1/2
S28	F1-8	Original Length Sensor1	10C	1/2
S29	F1-3	Scanner Home Position sensor	10C	1/2
S30	F1-5	Platen Cover Sensor	10C	1/2
S31	F1-9	Original Length Sensor2	10C	1/2

Symbol	Index No.	Name	P to P	Page
<b>FANs</b>				
FAN1	F6-1	Fusing Fan	7E	1/2
FAN2	F6-5	Exhaust Fan	6F	1/2
FAN3	F6-6	CTL Fan	6F	1/2
Symbol	Index No.	Name	P to P	Page
<b>Motors</b>				
M1	F8-2	1st Paper Tray Lift Motor	2B	1/2
M2	F8-3	2nd Paper Tray Lift Motor	2B	1/2
M3	F5-4	Duplex Motor	2C	1/2
M4	F5-5	By-pass Motor	2D	1/2
M5	F7-2	Toner Supply Motor	3F	1/2
M6	F4-1	Inverter Motor	7A	1/2
M7	F1-7	Scanner Motor	10C	1/2
M8	F2-8	Polygon Mirror Motor	8B	1/2
M9	F7-3	Main Motor	3E	1/2
Symbol	Index No.	Name	P to P	Page
<b>Clutches</b>				
MC1	F3-6	Upper Paper Feed Clutch	3A	1/2
MC2	F3-5	Upper Transport Clutch	3A	1/2
MC3	F3-8	Lower Paper Feed Clutch	3A	1/2
MC4	F3-7	Lower Transport Clutch	3A	1/2
MC5	F3-4	Registration Clutch	3E	1/2
Symbol	Index No.	Name	P to P	Page
<b>Solenoids</b>				
SOL1	F3-9	Tray Pick-up Solenoid	1C	1/2
SOL2	F3-9	Tray2 Pick-up Solenoid	1C	1/2
SOL3	F4-3	Paper Exit Solenoid	7A	1/2
SOL4	F7-1	Fusing Drive Release Solenoid	5F	1/2
Symbol	Index No.	Name	P to P	Page
<b>Switches</b>				
SW1	F6-2	Front Door Safety Switch	7B	1/2
SW2	F5-3	Right Door Open Switch	3E	1/2
SW3	F6-3	Main Power Switch	7B	1/2
Symbol	Index No.	Name	P to P	Page
<b>Others</b>				
LSD1	F2-9	Laser Synchronization Detector	10C	1/2
L1	F3-3	Fusing Lamp	2F	1/2
TH1	F2-2	Thermistor (MAIN)	7D	1/2
TH2	F2-4	Thermistor (SUB)	7D	1/2
TS1	F2-1	Thermostat (MAIN)	7D	1/2
TS2	F2-3	Thermostat (SUB)	7D	1/2
LED1	F1-2	Scanner lamp Unit (LED)	10D	1/2
HDD1	F6-8	HDD	3C	2/2