

A



TB Unit : Transfer Belt Unit
WTC : Waste Toner Cartridge

CN1 (on ECB)/CN1 (on LSU)

Pin No.	Signal Name	In/Out	
		CN1-E	CN1-L
1	+5VLD	---	---
2	+5VGND	---	---
3	5VGND	---	---
4	5VGND	---	---
5	NENB	Out	In
6	PSEL	Out	In
7	-VIDEO_K	Out	In
8	NADJUST_K	Out	In
9	-VIDEO_C	Out	In
10	NADJUST_C	Out	In
11	5VGND	---	---
12	-VIDEO_M	Out	In
13	NADJUST_M	Out	In
14	5VGND	---	---
15	-VIDEO_Y	Out	In
16	NADJUST_Y	Out	In

CN2 (on ECB)/CN3 (on LSU)

Pin No.	CN2	CN3	Signal Name	In/Out	
				CN2	CN3
5	5	5	+24V	---	---
4	4	4	24VGND	---	---
3	3	3	NPMCTL	Out	In
2	2	2	NPMLD	In	Out
1	1	1	PMCLK	Out	In

CN3 (on ECB)/CN2 (on LSU)

Pin No.	CN2	CN3	Signal Name	In/Out	
				CN3	CN2
1	4	4	+5V	---	---
2	3	3	5VGND	---	---
3	2	2	NHSYNC	In	Out
4	1	1	+5VGND	---	---

CN5 (on ECB)/CN1 (on high voltage board)

Pin No.	Signal Name	In/Out	
		CN1	CN5
1	GND	---	---
2	DHVACLK	Out	In
3	DHVERR	Out	In
4	DLATHV	Out	In
5	DHVEN	Out	In
6	DSDAATHV	Out	In
7	24VGND	---	---
8	DSCLKHV	Out	In
9	+24VGND	---	---
10	+24VHV	---	---

CN6 PCU

Pin No.	Signal Name	In/Out
1	PIKFUSEK	In/Out
2	GND	
3	PIKFUSEYMC	In/Out
4	GND	

CN7 Front/Right Door Sensor

Pin No.	Signal Name	In/Out
1	DOPEN (▲)	In
2	GND	---

CN8 Power Supply Unit Fan

Pin No.	Signal Name	In/Out
1	FANPWR	---
2	24VGND	---
3	PSFNERR	In

CN9 Fusing Fan

Pin No.	Signal Name	In/Out
1	FSRFNERR	In
2	24VGND	---
3	FANPWR	---

CN10 (on ECB)/CN1503 (on Toner Empty Sensor Board)

Pin No.	CN10	CN150301	Signal Name	In/Out	
				CN4	CN1503
1	10	10	NEMPK (▼)	In	Out
2	9	9	NEMPC (▼)	In	Out
3	8	8	EMPLDOK	Out	In
4	7	7	GND	---	---
5	6	6	+5V_EMP	---	---
6	5	5	EMPLDEDY	Out	In
7	4	4	NEMPY (▼)	In	Out
8	3	3	NEMPM (▼)	In	Out
9	2	2	EMPLEDC	Out	In
10	1	1	EMPLEDM	Out	In

CN11 Toner Cartridge Cover Sensor

Pin No.	Signal Name	In/Out
2	TCDOPEN (▲)	In
1	GND	---

CN12 (on ECB)/CN1 (on CMY Motor)/CN1 (BK Motor)

Pin No.	CN12	CN1 (CMY)	CN1 (BK)	Signal Name	In/Out	
					CN12	CN1 (BK)
1	1	1	1	+24VIR (IT)	---	---
2	2	2	2	+24VIR (PIK)	---	---
3	3	3	3	24VGND (IT)	---	---
4	4	4	4	24VGND (PIK)	---	---
5	5	5	5	NITMLD (IT)	In	Out
6	6	6	6	NPIKMMLD (PIK)	In	Out
7	7	7	7	+5V (IT)	---	---
8	8	8	8	+5V (PIK)	---	---
9	9	9	9	NITMON (IT)	Out	In
10	10	10	10	NPIKMON (PIK)	Out	In
11	11	11	11	ITMCLK (IT)	Out	In
12	12	12	12	PIKMCLK (PIK)	Out	In
13	13	13	13	GND (IT)	---	---
14	14	14	14	GND (PIK)	---	---
15	15	15	15	ITMG (IT)	Out	In
16	16	16	16	PIKMG (PIK)	Out	In

CN13 (on ECB)/CN1509 (PCU Home Sensor)

Pin No.	CN13	CN1509	Signal Name	In/Out	
				CN13	CN1509
1	4	4	GND	---	---
2	3	3	YMCZPH (▲)	In	Out
3	2	2	KZPH (▲)	In	Out
4	1	1	+5V_OPCSEN	---	---

CN14 (on ECB) / CN1510 (on TB Unit Cam Home Position Sensor)

Pin No.	Signal Name	In/Out	
		CN1-E	CN1-L
1	+5V_CAMSEN	---	---
2	ITHOME1 (▲)	In	Out
3	GND	---	---

CN15 (on ECB)/CN1601 (on Fusing Unit)

Pin No.	CN15	CN1601	Signal Name	In/Out	
				CN15	CN1601
1	6	6	FSRFUSE	In	---
2	5	5	TH1HIGH	In	Out
3	4	4	TH2HIGH	In	Out
4	3	3	GND	---	---
5	2	2	ROTATE (▲▼)	In	Out
6	1	1	NFSRJAM (▼)	In	Out
7	1	1	+5V_FSR	---	---
8	1	1	GND	---	---

CN17 (on ECB)/CN1505 (on Paper Full/Jam Sensor)

Pin No.	CN17	CN1505	Signal Name	In/Out	
				CN17	CN1505
1	4	4	EXITFULL (▲)	In	Out
2	3	3	NEXTJAM (▼)	In	Out
3	2	2	GND	---	---
4	1	1	+5V_EXIT	---	---

CN18 (on ECB) / CN1506 (on Paper Empty/Registration Sensor)

Pin No.	Signal Name	In/Out	
		CN18	CN1506
1	+5V	---	---
2	STPNON (▲)	In	Out
3	NREGSEN (▼)	In	Out
4	GND	---	---

CN19 Pickup Solenoid

Pin No.	Signal Name	In/Out
1	PICSOL	---
2	SOLPWR	---

CN20 Registration Clutch

Pin No.	Signal Name	In/Out
1	REGCLU	Out
2	GND	---

CN21 BK Solenoid

Pin No.	Signal Name	In/Out
1	+24VGND	-----
2	NC	-----
3	FEEDCLU	-----

CN22 Paper Pickup Motor

Pin No.	Signal Name	In/Out
1	OUTB-	Out
2	OUTB	Out
3	OUTA-	Out
4	OUTA	Out

CN23 (on ECB)/CN1507 (on By-pass Tray Paper Detection Sensor)/CN1512 (on By-pass Tray Home Position Sensor)

Pin No.	CN23	CN 1507	CN 1512	Signal Name	In/Out	
					CN23	CN 1507 CN 1512
1	3	3	3	+5V_MPT	---	---
2	2	2	2	GND	---	---
3	1	1	1	MPTHOME (▲)	In	Out
4	3	3	3	+5VA_MPT	---	---
5	2	2	2	MPPSEN (▼)	In	Out
6	1	1	1	GND	---	---

CN24 Mono/Color Changer Solenoid

Pin No.	Signal Name	In/Out
1	SOLPWR	---
2	NC	---
3	ITSOL2	---

CN25 TB Unit Cam Switching Solenoid

Pin No.	Signal Name	In/Out
1	ITSOL1	---
2	NC	---
3	SOLPWR	---

CN26 Switchback Solenoid

Pin No.	Signal Name	In/Out
1	SOLPWR	---
2	ADUSOL	Out

CN27 (on ECB)/CN1501 (on Color Registration Sensor)

Pin No.	CN27	CN1501	Signal Name	In/Out	
				CN27	CN1501
1	8	8	TBFUL (▲)	In	Out
2	7	7	+5V_REG	---	---
3	6	6	LED_L	Out	In
4	5	5	SNS_L	In	Out
5	4	4	GND	---	---
6	3	3	WTB_NON (▼)	In	Out
7	2	2	LED_R	Out	In
8	1	1	SNS_R	In	Out

CN28 Paper Size Detector

Pin No.	Signal Name	In/Out
1	STPSZ1	In
2	STPSZ2	In
3	GND	-----
4	STNON (▲)	In

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Paper Size	Letter	A4	B5	Legal
STPSZ2	L	L	H	H
STPSZ1	L	H	L	H

CN29 (on ECB)/CN1 (on Humidity/Temperature Sensor)

Pin No.	Signal Name	In/Out	
		CN1-E	CN1-L
1	TEMP	---	---
2	GND	In	Out
3	HUM	---	---
4	+5V_HUM	In	Out

CN30 Sub Fusing Fan

Pin No.	Signal Name	In/Out
1	FANPWR	---
2	24VGND	---
3	RIPFNERR	In

CN31 (on ECB)/CN1 (on Option Paper Feeder Unit)

Pin No.	Signal Name	In/Out	
		CN1-E	CN1-L
1	GND	---	---
2	SIOSCS1	Out	In
3	SCLK	Out	In
4	SIOSCS2	Out	In
5	GND	---	---
6	SDI	In	Out
7	SDO	Out	In
8	24VGND	---	---
9	+5V	---	---
10	+24VC	---	---
11	NIRST	Out	In
12	+24VC	---	---
13	+5VA	---	---
14	24VGND	---	---
15	ACFNON1	Out	In
16	ACFSMNA1	Out	In
17	SLP_CST_1	In	Out
18	ACFSMNB1	Out	In
19	ACFSMNA2	Out	In
20	ACFSMNB2	Out	In

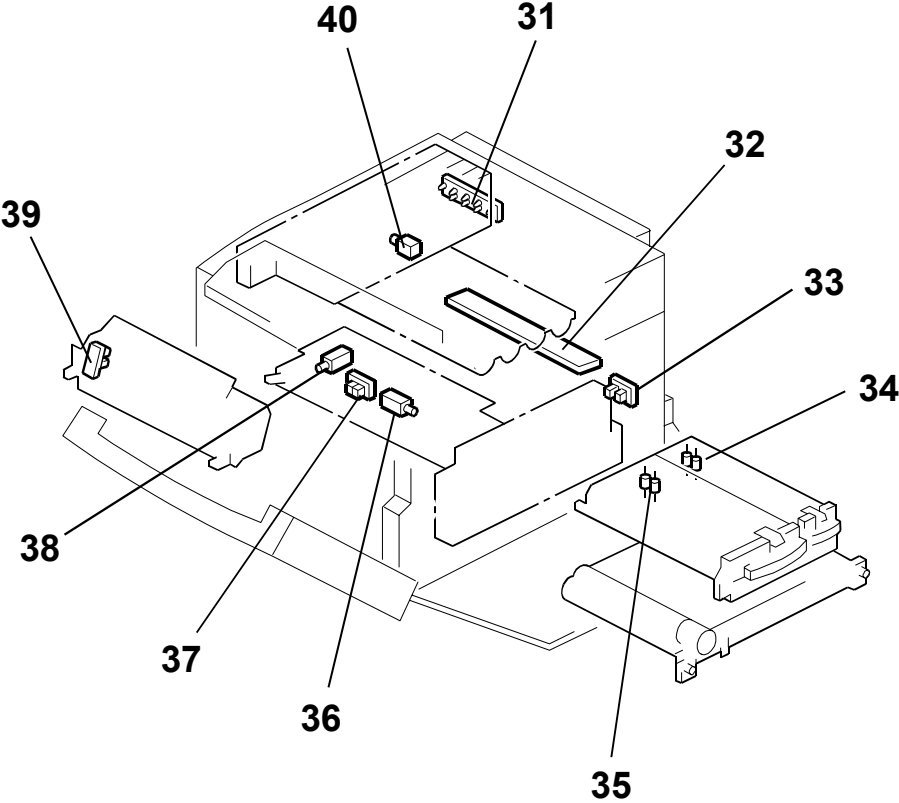
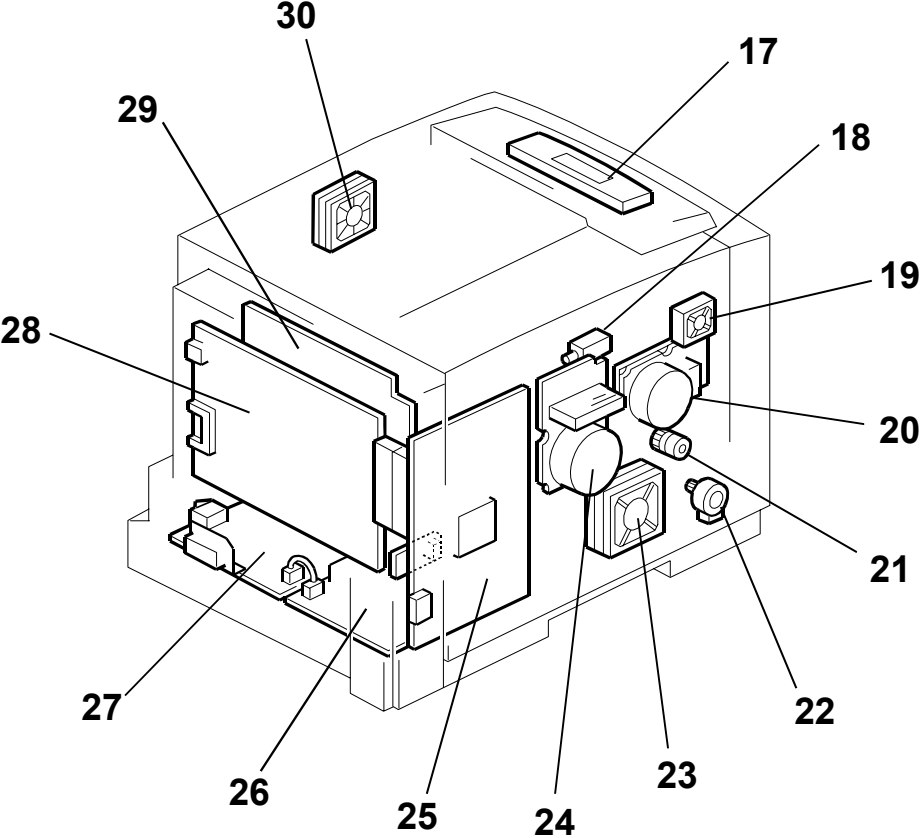
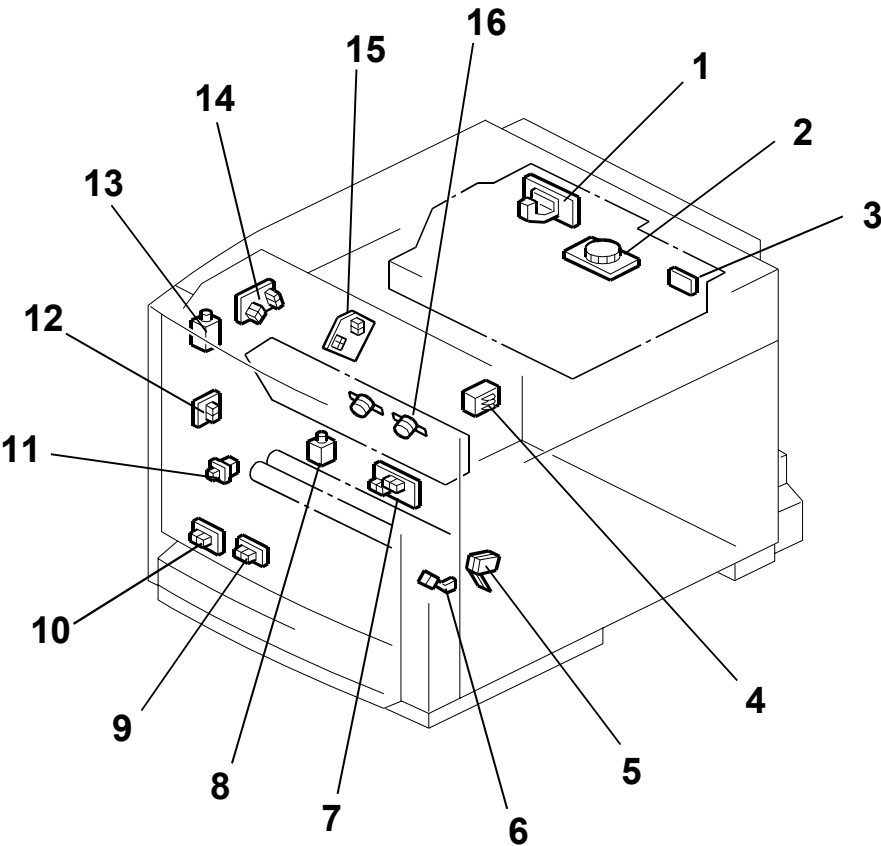
CN32 (on ECB)/CN2503 (on Power Supply Board)

Pin No.	CN32	CN2503	Signal Name	In/Out	
				CN32	CN2503
1	9	9	NCSAD	Out	In
2	8	8	SCLKAD	Out	In
3	7	7	SDOAD	Out	In
4	6	6	SDIAD	In	Out
5	5	5	DZCROSS	In	Out
6	4	4	IHON	Out	In
7	3	3	IHPower	---	---
8	2	2	VIN100V	In	Out
9	1	1	GND	---	---

CN33 (on ECB)/CN2505 (on Power Supply Board)

Pin No.		Signal Name	In/Out	
CN33	CN2505		CN33	CN2505
1	8	+5VA	-----	-----
2	7	+5VA	-----	-----
3	6	GND	-----	-----
4	5	+5VB	-----	-----
5	4	+5VB	-----	-----
6	3	GND	-----	-----
7	2	GND	-----	-----
8	1	NSLP	Out	In

ELECTRICAL COMPONENT LAYOUT (G081)



Index. No.	Description	P to P
1	LD Unit (LSU)	D1
2	Polygonal Mirror (LSU)	D1
3	Laser Synchronization Detector (LSU)	D1
4	Paper Size/Cassette Detector	E8
5	Interlock Switch	F3
6	Front/Right Door Open Sensor	D1
7	Paper Empty/Registration Sensor	A8, A9
8	Duplex Unit Switchback Solenoid	B5
9	By-pass Tray Home Position Sensor	B8
10	By-pass Tray Paper Detection Sensor	B9
11	Duplex Unit Detection Sensor	A5
12	Duplex Unit Jam Detection Sensor	A5
13	Toner Cartridge Cover Sensor	D1
14	Paper Full/Jam Sensor	A2, B2
15	PCU Home Position Sensor	A7
16	Thermostat	F5
17	LCD Panel	E1
18	BK Solenoid	B5
19	Sub Fusing Fan	C1
20	CMY Motor	B2
21	Registration Clutch	A8
22	By-pass Tray Paper Pickup Motor	B6
23	Power Supply Unit Fan	B7
24	BK Motor	B1

Index. No.	Description	P to P
25	ECB (Engine Control Board)	D5
26	PSU (Power Supply Unit)	F3
27	IH Power Board	F4
28	Main Control Board	F2
29	High Voltage Board	D8
30	Fusing Fan	C1
31	Toner Empty Sensor	C1
32	Color Registration Sensor	E8
33	Waste Toner Full Sensor	E9
34	Fuse Resistor	C8
35	Fuse Resistor	C9
36	Mono/Color Changer Solenoid	A6
37	Transfer Belt Unit Cam Home Position Sensor	B7
38	Transfer Belt Unit Cam Switching Solenoid	B6
39	Fusing Jam/Heat Roller Rotation Sensor	A3, B3
40	Temp./Humidity Sensor	C8, C9