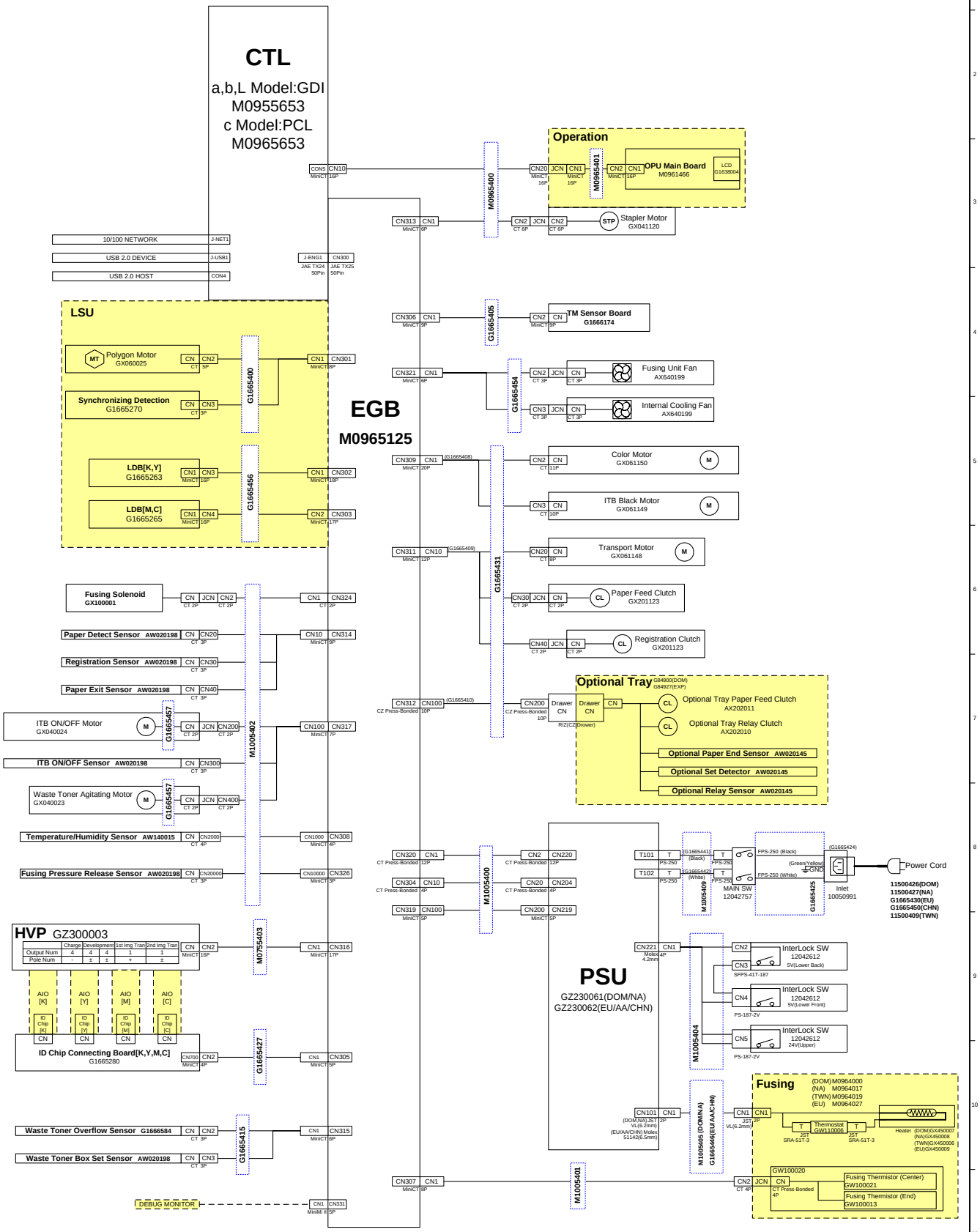
M095/M096 Point To Point DIAGRAM and Harnesses



M095/M096 Entire Pin Assignment List

Harness	Connector (FROM)				Signal Information				Relay Harness	Connector (TO)			
	No.	Access Point No.	Destination	Pin	Signal Name	Direction	L	H		No.	Access Point No.	Destination	Pin
G1665400	CN1	CN301	EGB M0965125	1	+24V					CN2	CN	Polygon Motor GX060025	5
				2	GND								4
				3	A_PMon	→	Start	Stop					3
				4	SCRDY_N	←	Synchro	Not Syncro					2
				5	A_PMCLK	→							1
				6	A_DETP_N_KC	←				CN3	CN	Synchronizing Detection G1665270	3
				7	+5V								2
				8	GND								1
G1665456	CN1	CN302	EGB M0965125	1	GND					CN3	CN	LDB[K,Y] G1665263	16
				2	GND								15
				3	GND								14
				4	A_LDLVL2_Y	→							13
				5	A_LDLVL0_K	→							12
				6	A_LDERR_N	←	Normal	Trouble					11
				7	LDOFF2_Y	→							10
				8	LDOFF0_K	→							9
				9	APC2EN_N_Y	→							8
				10	APC0EN_N_K	→							7
				11	LDDT0_K	→							6
				12	LDDT0_N_K	→							5
				13	-								
				14	LDDT2_Y	→							4
				15	LDDT2_N_Y	→							3
				16	-								
				17	+5V_LD								2
				18	+5V_LD								1
	CN2	CN303		1	GND					CN4	CN	LDB[M,C] G1665265	16
				2	GND								15
				3	GND								14
				4	A_LDLVL1_M	→							13
				5	A_LDLVL3_C	→							12
				6	A_LDERR_N	←	Normal	Trouble					11
				7	LDOFF1_M	→							10
				8	LDOFF3_C	→							9
				9	APC1EN_N_M	→							8
				10	APC3EN_N_C	→							7
				11	LDDT3_C	→							6
				12	LDDT3_N_C	→							5
				13	LDDT1_M	→							4
				14	LDDT1_N_M	→							3
				15	-								
				16	+5V_LD								2
				17	+5V_LD								1
M1005402	CN1	CN324	EGB M0965125	1	+24V_IL					CN2		Fusing Solenoid GX100001	1
				2	A_SOL_FU_P	→	ON	OFF					2
	CN10	CN314		1	GND					CN20		Paper Detect Sensor AW020198	3
				2	A_SEN_PAPEND_N	←	Detect Paper	NOT Detect					2
				3	+5V								1
				4	GND					CN30		Registration Sensor AW020198	3
				5	A_SEN_REG_N	←	Detect Paper	NOT Detect					2
				6	+5V								1
				7	GND					CN40		Paper Exit Sensor AW020198	3
				8	A_SEN_PAPOUT_N	←	Detect Paper	NOT Detect					2
				9	+5V								1
	CN100	CN317		1	A_DM_1TCSPCCW	→			G1665457	CN200		ITB ON/OFF Motor GX040024	1
				2	A_DM_1TCSPCW	→							2
				3	GND					CN300		ITB ON/OFF Sensor AW020198	3
				4	A_SEN_1TCSP	←	Separate	Attach					2
				5	+5V								1
				6	A_DM_TonER_P	→	ON	OFF	G1665457	CN400		Waste Toner Agitating Motor GX040023	1
				7	+24V_IL_FU1								2
	CN1000	CN308		1	A_SEN_TEMP_A	←				CN2000		Temperature/Humidity Sensor AW140015	4
				2	GND								3
				3	A_SEN_HUM_A	←							2
				4	+5V								1
	CN10000	CN326		1	GND					CN20000		Fusing Pressure Release Sensor AW020198	3
				2	A_SEN_TRSET_P	←	Release	Normal					2
				3	+5V								1
M0755403	CN1	CN316	EGB M0965125	1	GND					CN2	CN	HVP GZ300003	16
				2	GND								15
				3	+24V_IL								14
				4	+24V_IL								13
				5	A_HVPERR_N	←	SC						12
				6	A_HVPERR2	←							11
				7	HVPBIon_N	→	ON	OFF					10
				8	PWM_2T_+	→							9
				9	PWM_2T_-	→							8
				10	PWM_1T	→							7
				11	PWM_DC	→							6
				12	PWM_DM	→							5
				13	PWM_DY	→							4
				14	PWM_DK	→							3
				15	PWM_CCMY	→							2
				16	PWM_CK	→							1
				17	GND								
G1665427	CN1	CN305	EGB M0965125	1	GND					CN2	CN700	ID Chip Connecting Board G1665280	4
				2	A_SDA	←→							3
				3	A_SCL	→							2
				4	+5V_ID								1
				5	-								
G1665415	CN1	CN315	EGB M0965125	1	GND					CN2		Waste Toner Overflow Sensor G1666584	3
				2	A_SEN_TonERFULL_P	←		Full					2
				3	+5V								1
				4	GND					CN3		Waste Toner Box Set Sensor AW020198	3
				5	A_SEN_TonERBTL_N	←	Set	NOT Set					2
				6	+5V								1

M095/M096 Entire Pin Assignment List

Harness	Connector (FROM)				Signal Information				Relay Harness	Connector (TO)			
	No.	Access Point No.	Destination	Pin	Signal Name	Direction	L	H		No.	Access Point No.	Destination	Pin
M0965400	CN1	CN313	EGB M0965125	1	A_SM_DUPA_P	→				CN2		Stapler Motor GX041120	6
				2	+24V_SM								5
				3	A_SM_DUPAB_P	→							4
				4	A_SM_DUPB_P	→							3
				5	+24V_SM								2
				6	A_SM_DUPBB_P	→							1
	CN10	Con5	CTL a,b,l:M0955653 c:M0965653	1	GND				M0965401	CN2	CN1	OPU Main Board M0961466	16
				2	+5VC								15
				3	SW2_N	→							14
				4	SW1_N	→							13
				5	DI_LED	→							12
				6	ALT_R_LED	→							11
				7	BL	→							10
				8	DB7	←→							9
				9	DB6	←→							8
				10	DB5	←→							7
				11	DB4	←→							6
				12	E	→							5
				13	RS	→							4
				14	+3.3VC								3
				15	ALT_Y_LED	→							2
				16	GND								1
G1665405	CN1	CN306	EGB M0965125	1	GND					CN2	CN	TM Sensor Board G1666174	9
				2	A_SEN_TM1PWM	→							8
				3	A_SEN_TM1R_A	←							7
				4	A_SEN_TM3CR_A	←							6
				5	+5V								5
				6	A_SEN_TM3PWM	→							4
				7	A_SEN_TM3CD_A	←							3
				8	A_SEN_TM2L_A	←							2
				9	A_SEN_TM2PWM	→							1
G1665454	CN1	CN321	EGB M0965125	1	A_FAN_MIN	→				CN2		Fusing Fan AX640199	1
				2	A_FAN_MINLOCK_P	←	Normal	Trouble					2
				3	GND								3
				4	A_FAN_FU	→				CN3		Internal Cooling Fan AX640199	1
				5	A_FAN_FULOCK_P	←	Normal	Trouble					2
				6	GND								3
G1665431	CN1	CN309	EGB M0965125	1	A_DM_COLGAIN	→	Low Speed	High Speed		CN2	CN	Color Motor GX061150	11
				2	A_DM_COLCLK	→							10
				3	A_DM_COLon_N	→	Start	Stop					9
				4	A_DM_COLLOCK_P	←	Normal	Trouble					8
				5	GND								7
				6	GND								6
				7	+24V_IL								5
				8	+24V_IL								4
				9	+24V_IL								3
				10	GND								2
													1
				11	A_DM_BWMIDGAIN	→	Low Speed	High Speed		CN3	CN	ITB Black Motor GX061149	10
				12	A_DM_BWMIDCLK	→							9
				13	A_DM_BWMIDBK_P	→		Brake					8
				14	A_DM_BWMIDCW	→	Normal Rotation	Reverse Rotation					7
				15	A_DM_BWMIDon_N	→	Start	Stop					6
				16	A_DM_BWMIDLOCK_P	←	Normal	Trouble					5
				17	GND								4
				18	GND								3
				19	+24V_IL								2
				20	+24V_IL								1
	CN10	CN311		1	A_DM_FEEDFUGAIN	→	Low Speed	High Speed		CN20	CN	Transport Motor GX061148	8
				2	A_DM_FEEDFUCLK	→							7
				3	A_DM_FEEDFUon_N	→	Start	Stop					6
				4	A_DM_FEEDFULOCK_P	←	Normal	Trouble					5
				5	GND								4
				6	GND								3
				7	+24V_IL								2
				8	+24V_IL								1
				9	+24V_IL					CN30		Paper Feed Clutch GX201123	1
				10	A_CL_PAP_P	→	ON	OFF					2
				11	+24V_IL					CN40		Registration Clutch GX201123	1
				12	A_CL_REG_P	→	ON	OFF					2
	CN100	CN312		1	A_CL_OPPAP_P		ON	OFF		CN200		Optional Tray G84900(DOM) G84927(EXP)	10
				2	+24V_IL_FU2								9
				3	GND								8
				4	A_SEN_OPPAPEND_N	←	NOT Detect	Detect Paper					7
				5	+5V								6
				6	A_CL_OPFEED_P	→	ON	OFF					5
				7	+24V_IL_FU2								4
				8	A_SEN_OPSET_N	←	Set	NOT Set					3
				9	A_SEN_OPJAM_P	←	NOT Detect	Detect Paper					2
				10	+5V								1
M1005400	CN1	CN320	EGB M0965125	1	GND					CN2	CN220	PSU GZ230061(DOM/NA) GZ230062(EU/AA/CH N)	12
				2	GND								11
				3	GND								10
				4	+24V_IL								9
				5	+24V_IL								8
				6	+24V_IL								7
				7	GND								6
				8	+5V								5
				9	GND								4
				10	+3.3VE								3
				11	GND								2
				12	+5VE								1
	CN10	CN304		1	+5V_LD					CN20	CN204		4
				2	GND								3
				3	+24V								2
				4	GND								1
	CN100	CN319		1	A_SLP_PSU	→				CN200	CN219		5
				2	HTRLon_P	→							4
				3	A_ZEROXI	←							3
				4	HTTRon0_P	→							2
				5	GND								1
M1005401	CN1	CN307	EGB M0965125	1	A_TH_HEAT_A	←				CN2	CN	Fusing (DOM) M0964000 (NA) M0964017 (TWN) M0964019 (EU) M0964027	4
				2	GND								3
				3	A_TH_EDGE_A	←							2
				4	GND								1
				5	A_SEN_FUSET_N	←							
				6	GND								
				7	A_SEN_FUNEW_N	←							
				8	GND								

M095/M096 Entire Pin Assignment List

Harness	Connector (FROM)				Signal Information				Relay Harness	Connector (TO)			
	No.	Access Point No.	Destination	Pin	Signal Name	Direction	L	H		No.	Access Point No.	Destination	Pin
M1005409	T	T101	PSU	T101	AC-L					T		MAIN SW	
	T	T102		T102	AC-N					T		12042757	
G1665425			MAIN SW		AC-L							Inlet	
			12042757		AC-N							1005099	
M1005404	CN221	CN1	PSU	1	+5.1V(LPS Compatible)					CN2		InterLock SW	1
			GZ230061(DOM/NA)					Short		CN3		12042612	2
			GZ230062(EU/AA/CH							CN4		InterLock SW	1
			N)	2	+5.1V(LPS Compatible, Via IL)							12042612	2
				3	+24V					CN5		InterLock SW	1
				4	+24V(Via IL)							12042612	2
(DOM/NA)	CN1	CN101	PSU	1	AC-L					CN1	CN1	Fusing	1
M1005405			GZ230061(DOM/NA)	2	AC-N								2
B TO B		CN300	EGB	1	HSYNC_N	→					J-ENG1	CTL	1
			M0965125	2	LGATE_N	←						a,b,l:M0955653	2
				3	GND							c:M0965653	3
				4	PCLK	←							4
				5	GND								5
				6	P0DAT0_N_K	←							6
				7	P0DAT2_N_K	←							7
				8	P0DAT3_N_K	←							8
				9	P1DAT1_N_M	←							9
				10	P1DAT2_N_M	←							10
				11	P1DAT3_N_M	←							11
				12	P2DAT0_N_Y	←							12
				13	P2DAT2_N_Y	←							13
				14	P2DAT3_N_Y	←							14
				15	P3DAT1_N_C	←							15
				16	P3DAT2_N_C	←							16
				17	P3DAT3_N_C	←							17
				18	VP1FGATE_N_M	→							18
				19	VP2FGATE_N_Y	→							19
				20	PREQ_N	←							20
				21	IREADY_N	→							21
				22	COMMAND	←							22
				23	STATUS	→							23
				24	3.3VE								24
				25	3.3VE								25
				26	GND								26
				27	GND								27
				28	GND								28
				29	GND								29
				30	GND								30
				31	GND								31
				32	P0DAT1_N_K	←							32
				33	GND								33
				34	P1DAT0_N_M	←							34
				35	GND								35
				36	GND								36
				37	GND								37
				38	P2DAT1_N_Y	←							38
				39	GND								39
				40	P3DAT0_N_C	←							40
				41	Pon	→							41
				42	FUKKI	←							42
				43	VP0FGATE_N_K	→							43
				44	VP3FGATE_N_C	→							44
				45	SLP_N	←							45
				46	ENGRDY	→							46
				47	5VE								47
				48	3.3VE								48
				49	5VE								49
				50	3.3VE								50
External I/F		J-NET1	CTL	1	TX+	→						10/100 NETWORK	1
			a,b,l:M0955653	2	TX-	→							2
			c:M0965653	3	RX-	←							3
				4	NC(GND)								4
				5	NC(GND)	→							5
				6	RX+	←							6
				7	NC(GND)								7
				8	NC(GND)								8
				9	G_LED-								
				10	G_LED+								
				11	Y_LED-								
				12	Y_LED+								
External I/F		J-USB1	CTL	1	VBUS							USB DEVICE	1
			a,b,l:M0955653	2	Data-	←→							2
			c:M0965653	3	Data+	←→							3
				4	GND								4
External I/F		Con4	CTL	1	VBUS							USB HOST	1
			a,b,l:M0955653	2	Data-	←→							2
			c:M0965653	3	Data+	←→							3
				4	GND								4

PRINTER（M095 / M096） ELECTRICAL COMPONENT LAYOUT

Printer （M095 / M096）

Symbol	Index No.	Description	P to P
Motors			
M1	17	Duplex	C3
M2	1	LSU Fan	G4
M3	5	Fusing Fan	C4
M4	22	Color AIO	C6
M5	21	Black AIO	C6
M6	18	Transport/Fusing	C6
M7	13	Polygon	G6
M8	14	ITB Contact	G8
M9	16	Agitator	G8
Magnetic Clutches			
CL1	19	Registration	C7
CL2	20	Paper Feed	C7
Switches			
SW1	7	Main	B8
SW2	2	Interlock	B9
Sensors			
S1	23	Waste Toner Overflow	GH10
S2	24	Waste Toner Bottle Set	GH10
S3	3	Temperature/Humidity	GH6
S4	29	Paper End	G6
S5	28	Registration	G6
S6	26	Fusing Pressure Release	GH7
S7	27	Paper Exit	G7
S8	25	ITB Contact	FGH7
PCBs			
PCB1	33	Operation Panel Board	C3
PCB2	35	Main Controller Board (CTL)	F2-3
PCB3	30	ID Chip	GH9
PCB4	8	ID Chip Connecting Board [K,Y,M,C]	GH9
PCB5	9	TM Sensor Board	CD4
PCB6	6	Power Supply Board (PSU)	C8-10
PCB7	34	Engine Board (EGB)	E3-11
PCB8	10	LD Board [M,C]	G5
PCB9	11	LD Board [K,Y]	G5
PCB10	12	Synchronizing Detector Board	G5
PCB11	4	High Voltage Power Supply Board (HVP)	GH9
Lamp			
L1	32	Fusing	AB10
Others			
SOL1	15	Fusing Separation Pawl Solenoid	G6
TH1	31	Thermistors	A11

Feed Unit (G849)

Symbol	Index No.	Description	P to P
Sensors			
S1	36	Paper End Sensor	7B
S2	37	Realy Sensor	8B
Magnetic Clutches			
MC1	39	Paper Feed Clutch	7B
MC2	38	Relay Clutch	7B