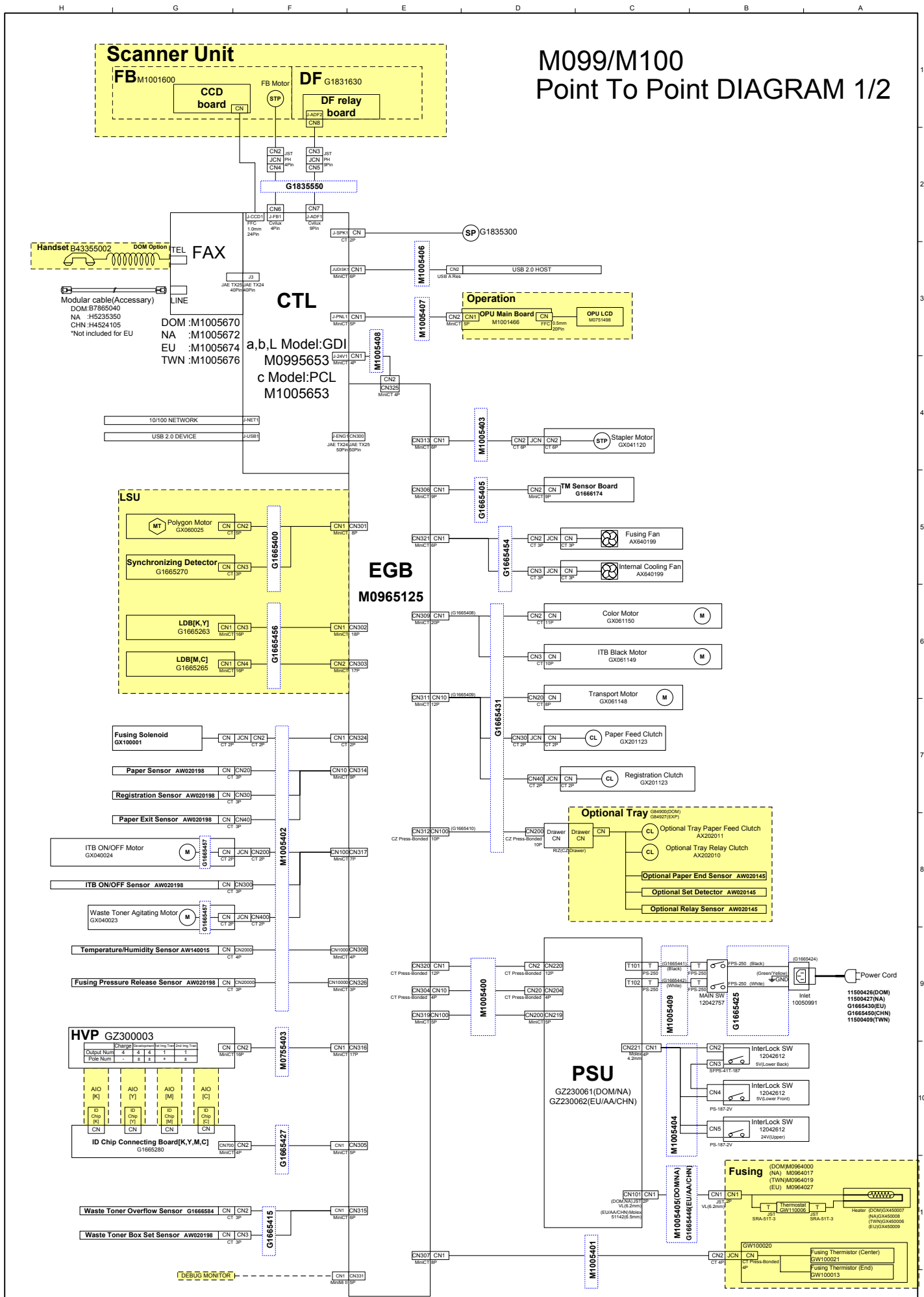
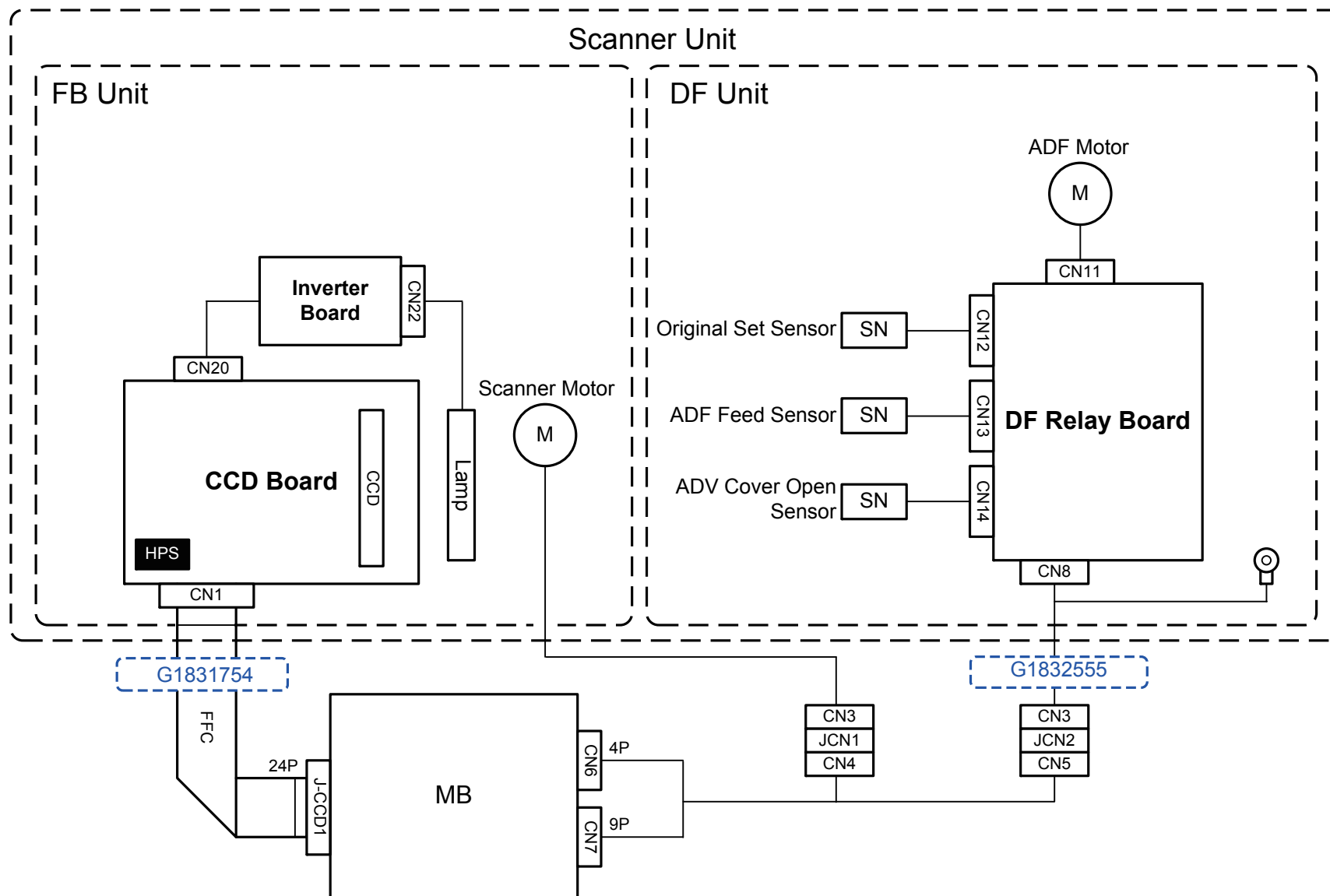


M099/M100

Point To Point DIAGRAM 1/2



M099/M100 Point To Point DIAGRAM 2/2



M099/M100 Entire Pin assignment List

Harness	Connector (FROM)			Signal Information				Relay Harness	Connector (TO)				
	No.	Access Point No.	Pin	Signal Name	Direction	L	H		No.	Access Point No.	Destination	Pin	
G1665400	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 Synchro					2	
			5	A_PMCLK	→				CN3	CN	Synchronizing Detection G1665270	1	
			6	A_DETP_N_KC	←							3	
			7	+5V								2	
			8	GND								1	
G1665456	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						
	CN303	EGB M0965125	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	APCTEN_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			CN324	EGB M0965125	1	+24V_IL					CN2		Fusing Solenoid GX100001
	2	A_SOL_FU_P			→	ON	OFF		2				
	CN314	EGB M0965125	1	GND					CN20		Paper Sensor AW020198	3	
			2	A_SEN_PAPEND_N	←	Detect Paper	NOT Detect					2	
			3	+5V					CN30		Registration Sensor AW020198	1	
			4	GND								3	
			5	A_SEN_REG_N	←	Detect Paper	NOT Detect		CN40		Paper Exit Sensor AW020198	2	
			6	+5V								1	
			7	GND					CN200		ITB ON/OFF Motor GX040024	3	
			8	A_SEN_PAPOUT_N	←	Detect Paper	NOT Detect					2	
	CN317	EGB M0965125	9	+5V					CN300		ITB ON/OFF Sensor AW020198	1	
			1	A_DM_1TCSPCCW	→							3	
			2	A_DM_1TCSPCW	→				CN400		Waste Toner Agitating Motor GX040023	2	
			3	GND								1	
			4	A_SEN_1TCSP	←	Separate	Attach		CN2000		Temperture/Humidity Sensor AW140015	4	
			5	+5V								3	
	CN308	EGB M0965125	1	+24V_IL_FU1					CN20000		Fusing Pressure Release Sensor AW020198	2	
			2	A_SEN_TEMP_A	←							1	
			CN326	EGB M0965125	3	A_SEN_HUM_A	←						
					4	+5V							
	M0755403	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_1T_-	→				6				
12				PWM_DC	→				5				
13				PWM_DM	→				4				
14				PWM_DY	→				3				
15				PWM_DK	→				2				
16				PWM_CCMY	→				1				
G1665427	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	CN315	EGB M0965125	1	GND					CN2		Waste Toner Overflow Sensor G1666584	3	
			2	A_SEN_TONERFULL_P	←		Full					2	
			3	+5V								1	
			4	GND									
			5	A_SEN_TONERBTL_N	←	Set	NOT Set						
M1005403	CN313	EGB M0965125	1	A_SM_DUPA_P	→				CN2		Stapler Moter GX041120	6	
			2	+24V_SM								5	
			3	A_SM_DUPAB_P	→							4	
			4	A_SM_DUPB_P	→							3	
			5	+24V_SM								2	
G1665405	CN306	EGB M0965125	6	A_SM_DUPBB_P	→				CN2	CN	TM Sensor Board G1666174	1	
			1	GND								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							

M099/M100 Entire Pin assignment List

Harness	Connector (FROM)			Signal Information				Relay Harness	Connector (TO)							
	No.	Access Point No.	Pin	Signal Name	Direction	L	H		No.	Access Point No.	Destination	Pin				
G1665454	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	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									
	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											
				10	A_CL_PAP_P	→	ON	OFF					CN30		Paper Feed Clutch GX201123	2
				11	+24V_IL											
				12	A_CL_REG_P	→	ON	OFF		CN40		Registration Clutch GX201123				1
				1	A_CL_OPPAP_P	→	ON	OFF								
				2	+24V_IL_FU2											
				3	GND											
				4	A_SEN_OPPAPEND_N	←	Detect Paper	NOT Detect								
				5	+5V											
				6	A_CL_OPFEED_P	→	ON	OFF								
				7	+24V_IL_FU2											
				8	A_SEN_OPSET_N	←	Set	NOT Set								
	9	A_SEN_OPJAM_P	←	Detect Paper	NOT Detect											
10	+5V															
M1005400	CN320	EGB M0965125	1	GND					CN2	CN220	PSU GZ230061(DOM/NA) GZ230062(EU/AA+O5A/CHN)	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				
CN304			1	+5V_LD					CN20	CN204		4				
			2	GND							3					
			3	+24V							2					
			4	GND							1					
CN319			1	A_SLP_PSU	→				CN200	CN219		5				
			2	HTRON_P	→						4					
			3	A_ZEROXI	←						3					
			4	HTRONO_P	→						2					
			5	GND							1					
M1005401	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												
M1005409	T101	PSU	T101	AC-L					T		MAIN SW 12042757					
	T102		AC-N					T								
G1665425		MAIN SW 12042757		AC-L							Inret 1005099					
			AC-N													
M1005404	CN1	PSU GZ230061(DOM/NA) GZ230062(EU/AA/CHN)	1	+5.1V(LPS Compatible)					CN2		InterLock SW 12042612	1				
									CN3			2				
			2	+5.1V(LPS Compatible, Via IL)					CN4			1				
			3	+24V								2				
			4	+24V(Via IL)								1				
M1005405 (DOM/NA) G1665446 (EU/AA/CHN)	CN101	PSU GZ230061(DOM/NA) GZ230062(EU/AA/CHN)	1	AC-L					CN1	CN1	Fusing	1				
			2	AC-N								2				
M1005406	JUDISK1	CTL a,b,l:M0995653 c:M1005653	1	VBUS					CN2		USB TypeA Receptacle	1				
			2	D-								2				
			3	D+								3				
			4	DGND								4				
			5													
			6	FG								FG				
M1005407	J-PNL1	CTL a,b,l:M0995653 c:M1005653	1	VBUS					CN2	CN1	OPU Main Board M1001466	1				
			2	D-								2				
			3	D+								3				
			4	DGND								4				
			5	FG								FG				
M1005408	CN325	EGB M0965125	1	GND					CN1	J-24V1	CTL a,b,l:M0995653 c:M1005653	1				
			2	GND								2				
			3	+24V								3				
			4	+24V								4				

Short

M099/M100 Entire Pin assignment List

Harness	Connector (FROM)			Signal Information				Relay Harness	Connector (TO)			
	No.	Access Point No.	Pin	Signal Name	Direction	L	H		No.	Access Point No.	Destination	Pin
	J-SPK1	CTL	1	SP+					CN		Speaker G1835300	1
			2	SP-								2
	CN300	EGB M0965125	1	HSYNC_N	→					J-ENG1	CTL	1
			2	LGATE_N	←						a,b,l:M0995653 c:M1005653	2
			3	GND								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	P3DAT11_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
	J3	CTL a,b,l:M0995653 c:M1005653	1	GND						J1	FAX	1
			2	GND							DOM:M1005670 NA:M1005672 EU:M1005674 TWN:M1005676	2
			3	GND								3
			4	GND								4
			5	FAX_ID0	←							5
			6	DTMF_SiD	→							6
			7	DTMF_D1	→							7
			8	DTMF_D2	→							8
			9	DTMF_D3	→							9
			10	DTMF_D4	→							10
			11	GND								11
			12	GND								12
			13	GND								13
			14	/SCS3	→							14
			15	/SRD	→							15
			16	/IRQN	←							16
			17	/SWR	→							17
			18	/RESET	→							18
			19	FAX_TYPE	←							19
			20	SSD_PWM	←							20
			21	+24VC								21
			22	+24VC								22
			23	+5VC								23
			24	+5VC								24
			25	FA5	→							25
			26	FA4	→							26
			27	FA3	→							27
			28	FA2	→							28
			29	FA1	→							29
			30	FA0	→							30
			31	+3.3VC								31
			32	+3.3VC								32
			33	SD0	↔							33
			34	SD1	↔							34
			35	SD2	↔							35
			36	SD3	↔							36
			37	SD4	↔							37
			38	SD5	↔							38
			39	SD6	↔							39
			40	SD7	↔							40
G1835550	J-ADF1	CTL a,b,l:M0995653 c:M1005653	1	DGND					CN8	J-ADF2	Scanner Unit DF G1831630 DF relay board	9
			2	ADF_COVER	←	OPEN	CLOSE					8
			3	ADF_FEED	←	NOT Detect	Detect Paper					7
			4	ADF_ENTRY	←	Detect Paper	NOT Detect					6
			5	+5V								5
			6	/ADF_B	→							4
			7	ADF_B	→							3
			8	ADF_A	→							2
			9	/ADF_A	→							1
	J-FB1		1	/FB_B	→				CN4	CN2	Scanner Unit FB M1001600 FB Motor	1
			2	FB_B	→							2
			3	FB_A	→							3
			4	/FB_A	→							4

M099/M100 Entire Pin assignment List

Harness	Connector (FROM)			Signal Information				Relay Harness	Connector (TO)			
	No.	Access Point No.	Pin	Signal Name	Direction	L	H		No.	Access Point No.	Destination	Pin
FFC	J-CCD1	CTL a,b,l:M0995653 c:M1005653	1	LAMP_V						CN1	Scanner Unit FB M1001600 CCD board	24
			2	LAMP_V								23
			3	FGND								22
			4	FGND								21
			5	VCC								20
			6	DGND								19
			7	CCD_PH1	→							18
			8	CCD_PH2	→							17
			9	CCD_SH1	→							16
			10	CCD_SH0	→							15
			11	CCD_SW1	→							14
			12	CCD_RS	→							13
			13	CCD_SW2	→							12
			14	CCD_CP	→							11
			15	CCD_HOME	→	Scan	Home					10
			16	DGND								9
			17	+12VC								8
			18	AGND								7
			19	ROUT	←							6
			20	AGND								5
			21	GOUT	←							4
			22	AGND								3
			23	BOUT	←							2
			24	AGND								1
	J-NET1	CTL a,b,l:M0995653 c:M1005653	1	TX+	→						10/100 NETWORK	1
			2	TX-	→							2
			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+								
	J-USB1	CTL a,b,l:M0995653 c:M1005653	1	VBUS							USB DEVICE	1
			2	Data-	↔							2
			3	Data+	↔							3
			4	GND								4

COLOR MULTIFUNCTION PRINTER(M099 / M100) ELECTRICAL COMPONENT LAYOUT

Color Multifunction Printer(M099 / M100)

Symbol	Index No.	Description	P to P
Motors			
M1	17	Duplex	CD4
M2	1	LSU Fan	G5
M3	5	Fusing Fan	CD5
M4	22	Color AIO	C6
M5	21	Black AIO	C6
M6	18	Transport/Fusing	C6
M7	13	Polygon	G5
M8	14	ITB Contact	GH8
M9	16	Agitator	GH8
M10	38	Scanner	F1(2/2)
M11	43	ADF	B1 (2/2)

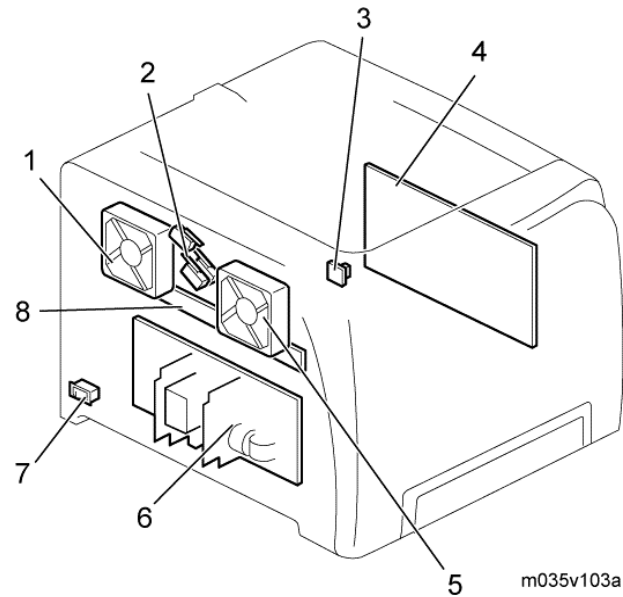
Magnetic Clutches			
CL1	19	Registration	CD7
CL2	20	Paper Feed	CD7

Switches			
SW1	7	Main	B9
SW2	2	Interlock	B10

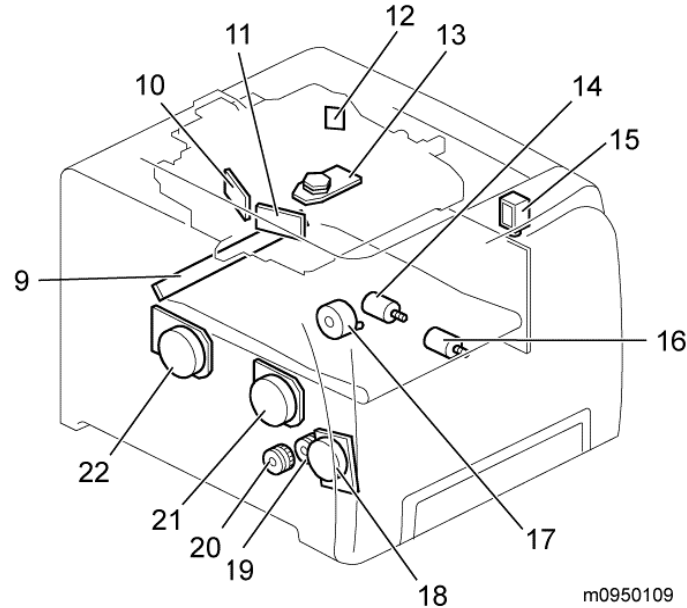
Sensors			
S1	23	Waste Toner Overflow	GH11
S2	24	Waste Toner Bottle Set	GH11
S3	3	Temperature/Humidity	GH9
S4	29	Paper End	G7
S5	28	Registration	G7
S6	26	Fusing Pressure Release	GH9
S7	27	Paper Exit	G7
S8	25	ITB Contact	GH8
S9	39	ADF Cover Open	B2(2/2)
S10	40	Original Set	B2(2/2)
S11	41	ADF Feed	B2(2/2)

Feed Unit (G849)			
Symbol	Index	Description	P to P
Sensors			
S1	44	Paper End Sensor	8B
S2	45	Realy Sensor	8B
Magnetic Clutches			
MC1	47	Paper Feed Clutch	8B
MC2	46	Relay Clutch	8B

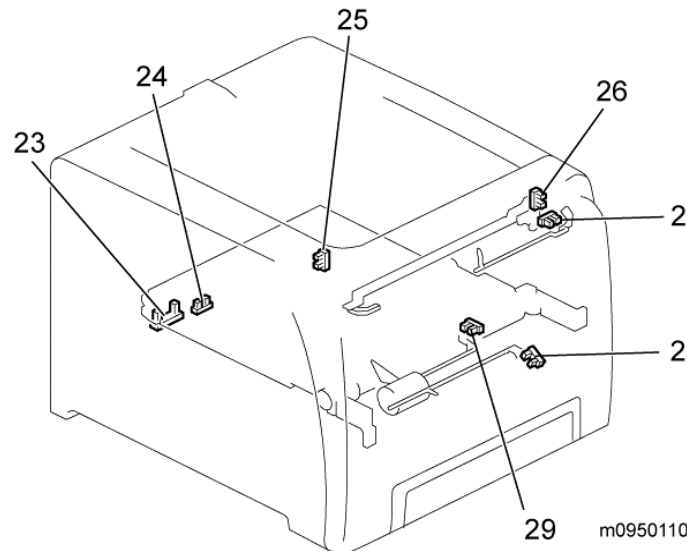
Symbol	Index No.	Description	P to P
PCBs			
PCB1	33	Operation Panel	CD3
PCB2	37	Main Controller Board	F2-4
PCB3	36	Fax Board	G2
PCB4	30	ID Chip [B,Y,M,C]	GH10
PCB5	8	ID Chip Connecting Board	GH10
PCB6	9	TM Sensor Board	CD5
PCB7	6	Power Supply Board(PSU)	CD9-11
PCB8	34	Engine Board(EGB)	E4-11
PCB9	10	LD Board-C/M	G6
PCB10	11	LD Board-K/Y	G6
PCB11	12	Synchronizing Detector Board	G5
PCB12	4	High Voltage Power Supply Board(HVP)	GH9-10
Lamp			
L1	32	Fusing	A11
L2	42	Exposure	C2(2/2)
Others			
SP1	35	Speaker	D2
SOL1	15	Fusing Separation Pawl Solenoid	G7
TH1	31	Thermistors	B11



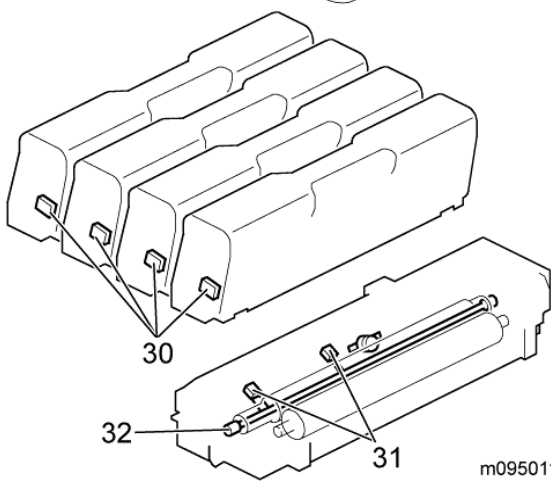
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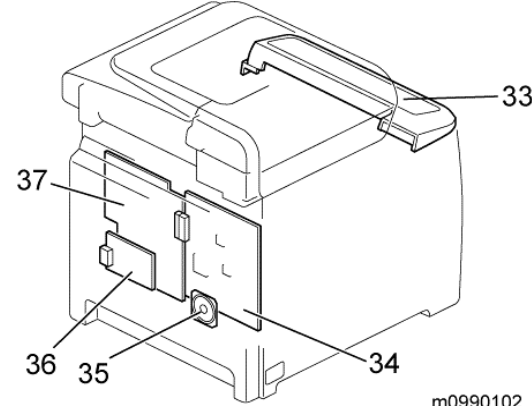
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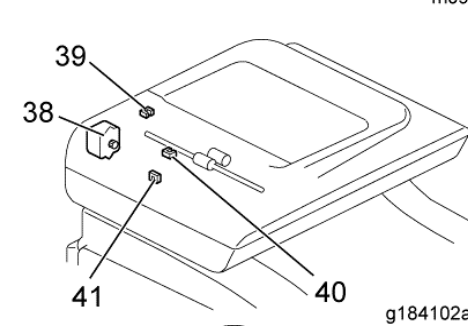
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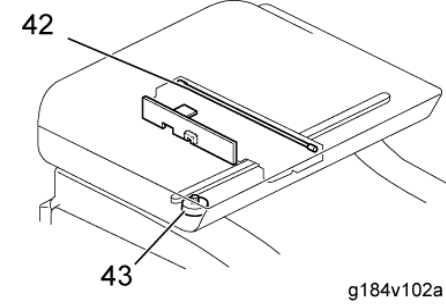
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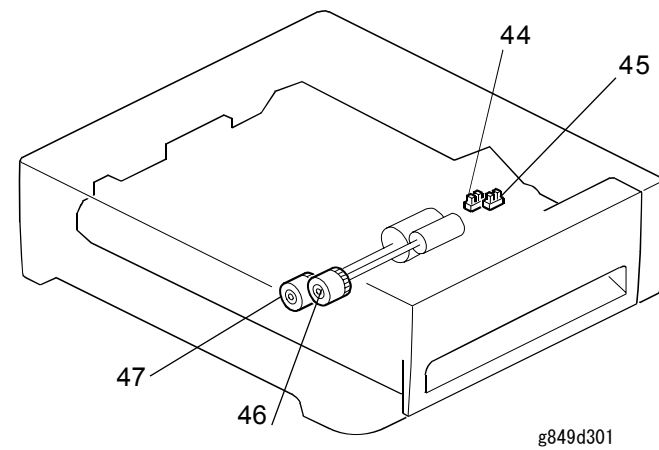
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g184102a



g184v102a



g849d301