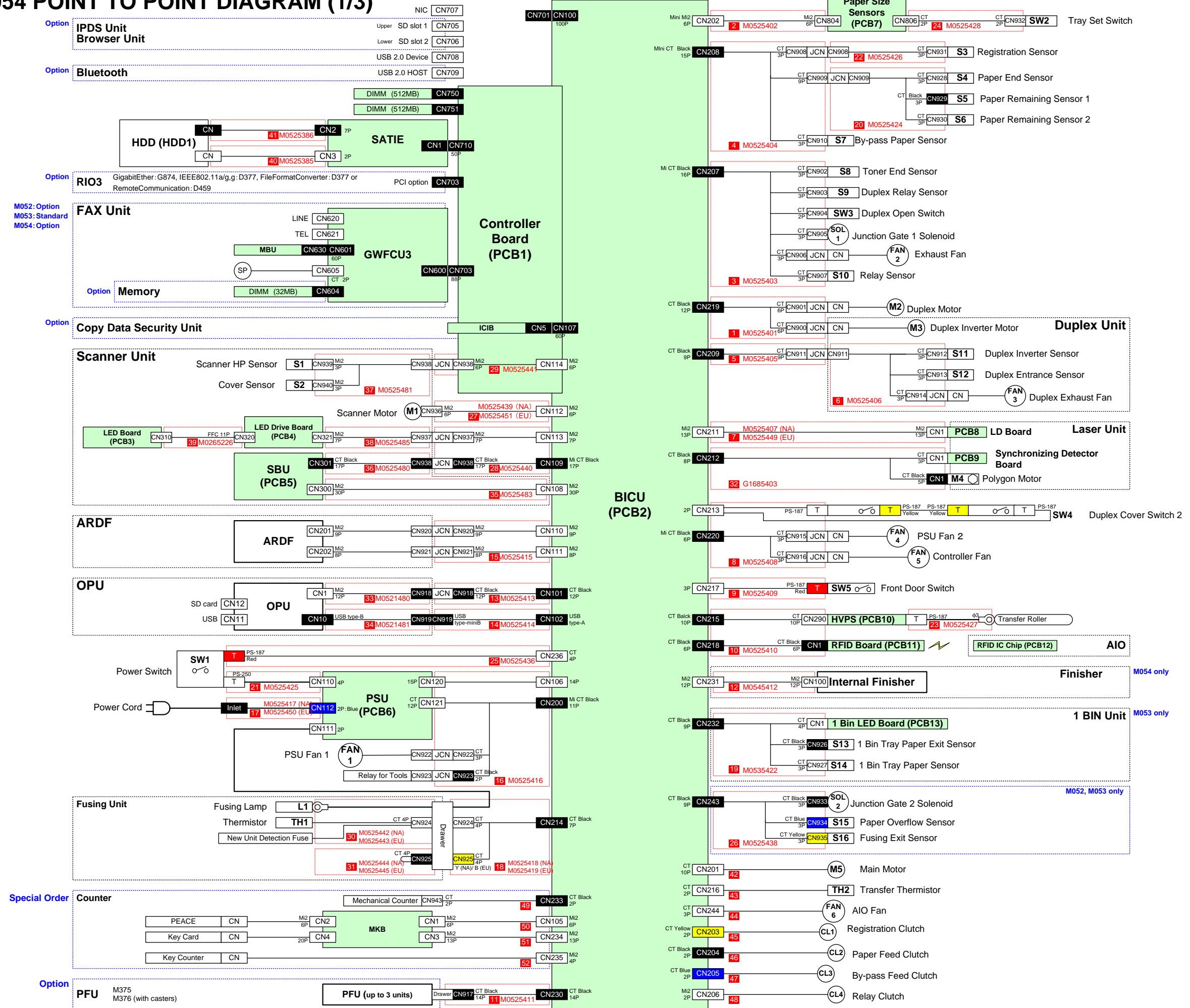
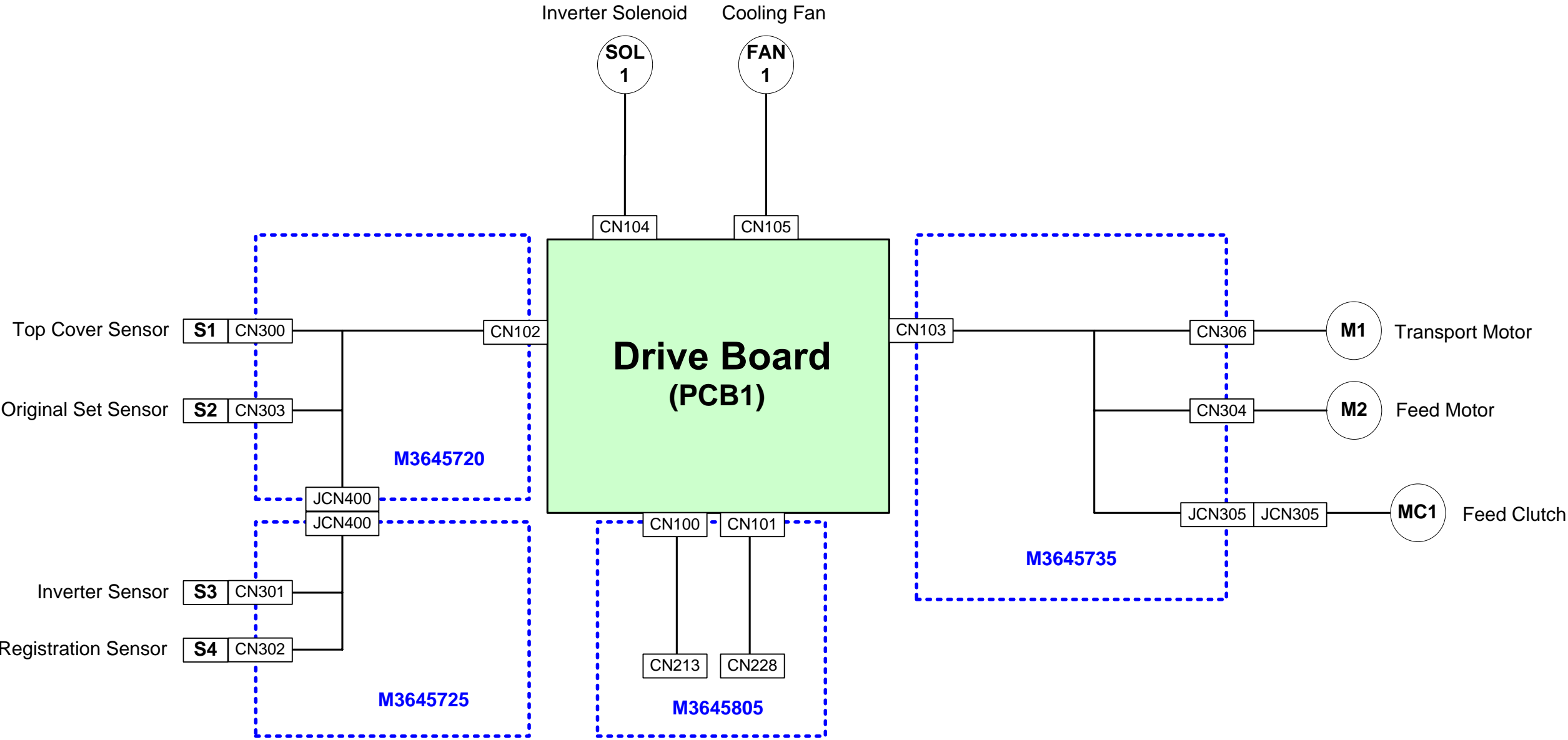


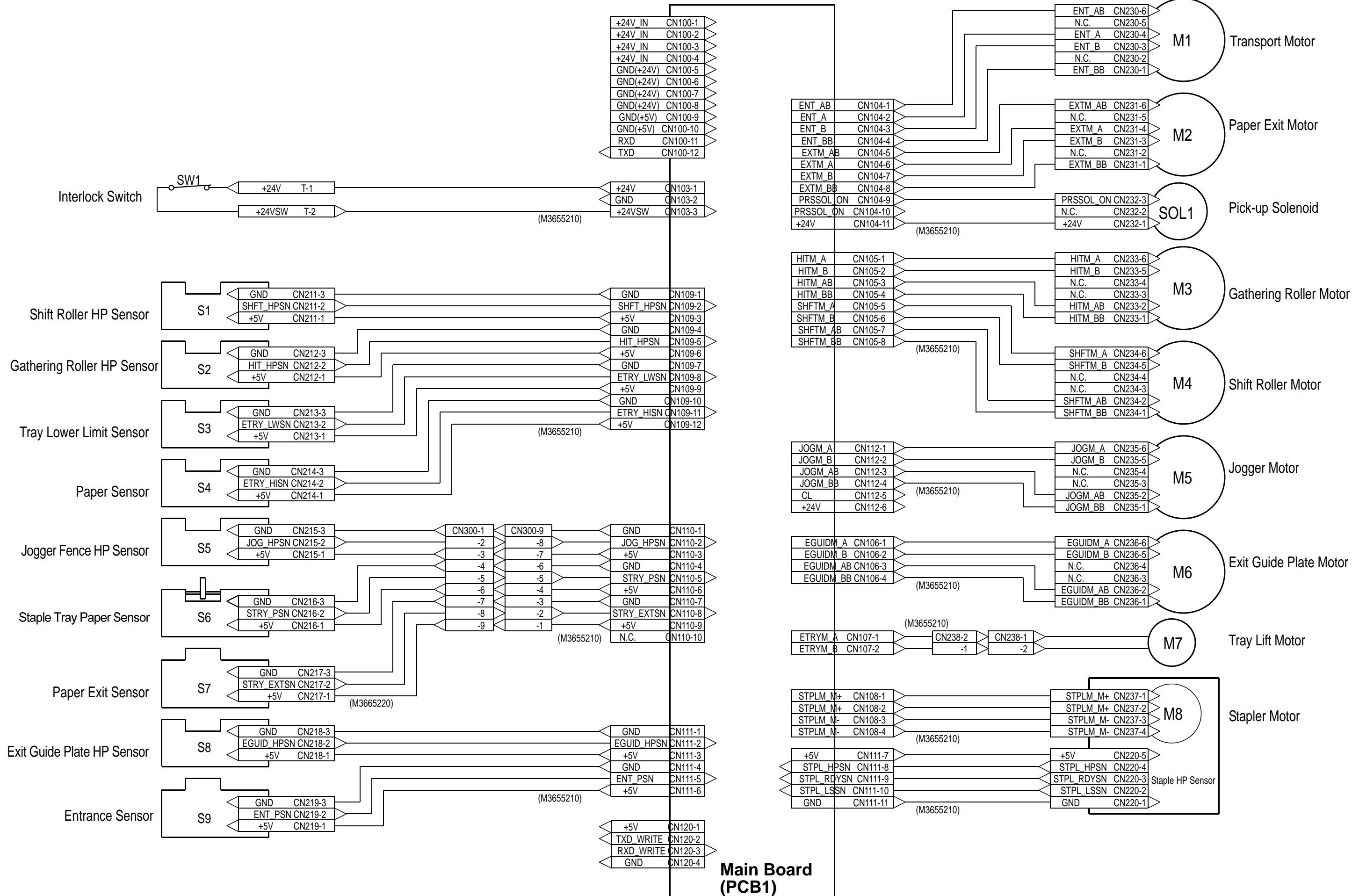
## M052/M053/M054 POINT TO POINT DIAGRAM (1/3)



M052/M053/M054 (ARDF) POINT TO POINT DIAGRAM (2/3)



# M052/M053/M054 (Internal Finisher: M054 only) POINT TO POINT DIAGRAM (3/3)



M052/M053/M054 Pin Assignment Lists (1/2)

SH-MF1 (M052/M053/M054) Pin Assignment Lists

Assign No.	Harness No.	Connector (FROM)		Signal Descriptions				Connector (TO)	
		No.	To	Pin No.	Signal Name	Direction	L	H	No.
1	M0525401	CN219	BICU	1	DUPINV_MTR:+24VSM	→			CN900
				2	DUPINV_MTR:A	→			
				3	DUPINV_MTR:B	→			
				4	DUPINV_MTR:B	→			
				5	DUPINV_MTR:B	→			
				6	DUPINV_MTR:+24VSM	→			
				7	DUP_MTR:+24VSM	→			
				8	DUP_MTR:A	→			
				9	DUP_MTR:A	→			
				10	DUP_MTR:B	→			
				11	DUP_MTR:B	→			
				12	DUP_MTR:+24VSM	→			
2	M0525402	CN202	BICU	1	P-SIZE_SNB:SN1	←			CN804
				2	P-SIZE_SNB:SN2	←			
				3	P-SIZE_SNB:GND	←			
				4	P-SIZE_SNB:SN3	←			
				5	P-SIZE_SNB:TSET_SW	←	Set	Not set	
				6	P-SIZE_SNB:+5V	←			
				7	TNR_END_SN:GND	←	Not end	End	CN902
				8	TNR_END_SN	←			
				9	TNR_END_SN:+5V	←			
				10	DUP_RLY_SN:GND	←	No paper	Paper	
				11	DUP_RLY_SN:+5V	←			
				12	DUP_OP_SW	←	Close	Open	
3	M0525403	CN207	BICU	1	JNC_GT1_SOL	→	On	Off	CN905
				2	JNC_GT1_SOL	→	On	Off	
				3	JNC_GT1_SOL	→	On	Off	
				4	JNC_GT1_SOL	→	On	Off	
				5	JNC_GT1_SOL	→	On	Off	
				6	JNC_GT1_SOL	→	On	Off	
				7	JNC_GT1_SOL	→	On	Off	
				8	JNC_GT1_SOL	→	On	Off	
				9	JNC_GT1_SOL	→	On	Off	
				10	JNC_GT1_SOL	→	On	Off	
				11	JNC_GT1_SOL	→	On	Off	
				12	JNC_GT1_SOL	→	On	Off	
4	M0525404	CN208	BICU	1	RGST_SN:GND	←	Paper	No paper	CN908
				2	RGST_SN	←	Paper	No paper	
				3	RGST_SN:+5V	←	Paper	No paper	
				4	P-END_SN:GND	←	Paper	No paper	
				5	P-END_SN	←	Paper	No paper	
				6	P-END_SN:+5V	←	Paper	No paper	
				7	RMN_P-SN:1:GND	←	Paper	No paper	
				8	RMN_P-SN:1	←	Paper	No paper	
				9	RMN_P-SN:1:+5V	←	Paper	No paper	
				10	RMN_P-SN:2:GND	←	Paper	No paper	
				11	RMN_P-SN:2	←	Paper	No paper	
				12	RMN_P-SN:2:+5V	←	Paper	No paper	
5	M0525405	CN209	BICU	1	BYPASS_P-SN:GND	←	Paper	No paper	CN910
				2	BYPASS_P-SN	←	Paper	No paper	
				3	BYPASS_P-SN:+5V	←	Paper	No paper	
				4	DUP_INV_SN:GND	←	Paper	No paper	
				5	DUP_INV_SN	←	Paper	No paper	
				6	DUP_INV_SN:+5V	←	Paper	No paper	
				7	DUP_ENT_SN:GND	←	Paper	No paper	
				8	DUP_ENT_SN	←	Paper	No paper	
				9	DUP_ENT_SN:+5V	←	Paper	No paper	
				10	DUP_EX-FAN:CTL	→	Off	On	
				11	DUP_EX-FAN:LOCK	→	Normal	Not normal	
				12	DUP_EX-FAN:GND	→	Normal	Not normal	
6	M0525406	CN911	M0525405	1	DUP_INV_SN:GND	←	Paper	No paper	CN912
				2	DUP_INV_SN	←	Paper	No paper	
				3	DUP_INV_SN:+5V	←	Paper	No paper	
				4	DUP_ENT_SN:GND	←	Paper	No paper	
				5	DUP_ENT_SN	←	Paper	No paper	
				6	DUP_ENT_SN:+5V	←	Paper	No paper	
				7	DUP_EX-FAN:CTL	→	Off	On	
				8	DUP_EX-FAN:LOCK	→	Normal	Not normal	
				9	DUP_EX-FAN:GND	→	Normal	Not normal	
				10	DUP_EX-FAN:GND	→	Normal	Not normal	
				11	DUP_EX-FAN:GND	→	Normal	Not normal	
				12	DUP_EX-FAN:GND	→	Normal	Not normal	
7	M0525407 (NA)	CN211	BICU	1	LDB:LVDS:2:-	→			CN1
				2	LDB:LVDS:2:+	→			
				3	LDB:LVDS:1:-	→			
				4	LDB:LVDS:1:+	→			
				5	LDB:GND	→			
				6	LDB:APC_GT:1	→	Active	Not active	
				7	LDB:DAC:2	→			
				8	LDB:LD_ERR	←	Detected	Not detected	
				9	LDB:DAC:1	→			
				10	LDB:GND	→			
				11	LDB:OFF	→	LD On	LD Off	
				12	LDB:APC_GT:2	→	Active	Not active	
7	M0525449 (EU)	CN211	BICU	1	LDB:LVDS:2:-	→			CN1
				2	LDB:LVDS:2:+	→			
				3	LDB:LVDS:1:-	→			
				4	LDB:LVDS:1:+	→			
				5	LDB:GND	→			
				6	LDB:APC_GT:1	→	Active	Not active	
				7	LDB:DAC:2	→			
				8	LDB:LD_ERR	←	Detected	Not detected	
				9	LDB:DAC:1	→			
				10	LDB:GND	→			
				11	LDB:OFF	→	LD On	LD Off	
				12	LDB:APC_GT:2	→	Active	Not active	
8	M0525408	CN220	BICU	1	PSU_FAN2:CTL	→	Off	On	CN915
				2	PSU_FAN2:LOCK	←	Normal	Not normal	
				3	PSU_FAN2:GND	←			
				4	CTL_FAN:CTL	→	Off	On	
				5	CTL_FAN:LOCK	←	Normal	Not normal	
				6	CTL_FAN:GND	←			
				7	+24VSR	→			
				8	+24VC	→			
				9	+24VS	→			
				10	N.C.	→			
				11	+24VSR	→			
				12	RFD:GND	→			
9	M0525409	CN217	BICU	1	RFD:GND	→			CN1
				2	RFD:GND	→			
				3	RFD:TXD	→			
				4	RFD:RXD	→			
				5	RFD:RST	→	Reset	Normal	
				6	RFD:GND	→			
				7	HVP:GND	→			
				8	HVP:GND	→			
				9	HVP:GND	→			
				10	HVP:GND	→			
				11	HVP:GND	→			
				12	HVP:GND	→			
10	M0525410	CN218	BICU	1	HVP:GND	→			CN290
				2	HVP:GND	→			
				3	HVP:GND	→			
				4	HVP:GND	→			
				5	HVP:GND	→			
				6	HVP:GND	→			
				7	HVP:GND	→			
				8	HVP:GND	→			
				9	HVP:GND	→			
				10	HVP:GND	→			
				11	HVP:GND	→			
				12	HVP:GND	→			
10	M0525410	CN215	HVP	1	HVP:GND	→			CN290
				2	HVP:GND	→			
				3	HVP:GND	→			
				4	HVP:GND	→			
				5	HVP:GND	→			
				6	HVP:GND	→			
				7	HVP:GND	→			
				8	HVP:GND	→			
				9	HVP:GND	→			
				10	HVP:GND	→			
				11	HVP:GND	→			
				12	HVP:GND	→			

11	M0525411	CN230	BiCU	1	PFU:RXD	←			CN917	PFU (Option)	14				
				2	PFU:TXD	→					13				
				3	PFU:GND						12				
				4	PFU:GND						11				
				5	PFU:+5V						10				
				6	PFU:+5V						9				
				7	PFU:GND						8				
				8	PFU:GND						7				
				9	PFU:GND						6				
				10	PFU:GND						5				
				11	PFU:+24VA						4				
				12	PFU:+24VA						3				
				13	PFU:+24VA						2				
				14	PFU:+24VA						1				
12	M0545412	CN231	BiCU	1	FIN:RXD	←			CN100	Internal Finisher (M054 only)	12				
				2	FIN:TXD	→					11				
				3	FIN:GND						10				
				4	FIN:GND						9				
				5	FIN:GND						8				
				6	FIN:GND						7				
				7	FIN:GND						6				
				8	FIN:GND						5				
				9	FIN:+24VA						4				
				10	FIN:+24VA						3				
				11	FIN:+24VA						2				
				12	FIN:+24VA						1				
13	M0525413	CN101	BiCU	1	OPU+PW_KEY	←			CN918	Operation Panel	12				
				2	OPU+SW	←					11				
				3	OPU+RX_RQ	←					10				
				4	OPU+GND						9				
				5	OPU+RX_DT	←					8				
				6	OPU+RX_CLK	→					7				
				7	OPU+GND						6				
				8	OPU+TX_CLK	→					5				
				9	OPU+TX_DT	→					4				
				10	OPU+5V						3				
				11	OPU+5V						2				
				12	OPU+24VB						1				
14	M0525414	CN102	BiCU	1	OPU+5V				CN919	M0521481 Operation Panel	5				
				2	OPU+USB-D-						4				
				3	OPU+USB-D+						3				
				-	N.C.						2				
15	M0525415	CN110	BiCU	1	ARDF:GND				CN920	ARDF	9				
				2	ARDF:GND						8				
				3	ARDF:GND						7				
				4	ARDF:GND						6				
				5	ARDF:+24VB						5				
				6	ARDF:+24VB						4				
				7	ARDF:+24VB						3				
				8	ARDF:+24VB						2				
		9	N.C.				1								
		CN111	BiCU	1	ARDF:+5VE				CN921	ARDF	8				
				2	ARDF:RXD	←					7				
				3	ARDF:ORG_ST_SN		Original	No original			6				
4	ARDF:TXD			←			5								
16	M0525416	CN106	BiCU	5	ARDF:TOT_SGNL	←	Scanning	Waiting	CN121	PSU	11				
				6	ARDF:+5V						10				
				7	ARDF:GND						9				
				8	N.C.						8				
				1	+5VE						15				
				2	+5VE						14				
				3	GND						13				
				4	GND						12				
				5	+12V						11				
				6	GND						10				
				7	+5V						9				
				-	N.C.						8				
8	GND						7								
9	GND						6								
10	GND				5										
11	GND				4										
12	+24VB				3										
13	+24VA				2										
14	+24VC				1										
17	M0525417 (NA)	CN112	PSU	1	PSU_FAN1:CTL	→	Off	On	CN922	PSU Fan1	3				
				2	PSU_FAN1:LOOK	←	Normal	Not normal			2				
				3	PSU_FAN1:GND						1				
				4	ACRLY:TRG						12				
				-	N.C.						11				
				-	N.C.						10				
				5	+5VLD						9				
				6	ENGY_SV_SGNL	←	Normal	Energy			8				
				7	FSNG_LMP:TRG	←	Off	On			7				
				8	ZR_CRSS	→	Detected	Not detected			6				
				9	FSNG_RLY:TRG	←	Off	On			5				
				10	GND						4				
				11	+24VS						3				
				12	RLY_TL-						2				
13	RLY_TL+				1										
18	M0525450 (EU)	CN112	PSU	1	AC L				Inlet	Power Cord	N				
				2	AC N						E				
				1	AC L						N				
				2	AC N						E				
18 (NA)	M0525418	CN214	BiCU	1	FSNG_TH	←			CN924	M0525442 Fusing Unit	4				
				2	FSNG_TH:GND						3				
				3	FSNG_NW_DTCT:+5V						2				
				4	FSNG_NW_DTCT	←	Old	New			1				
				5	FSNG_ST_DTCT:+5V						2				
				6	FSNG_ST_DTCT	←	Not set	Set			1				
				7	N.C.										
				T1	GND						4				
				-	N.C.						3				
				CN111	PSU	1	FSNG_HTR:N						Drawer	M0525442 Fusing Unit	4
						2	FSNG_HTR:L								2
						1	FSNG_HTR:L								1
2	FSNG_HTR:N						1								
18 (EU)	M0525419	CN214	BiCU	1	FSNG_TH	←			CN924	M0525443 Fusing Unit	4				
				2	FSNG_TH:GND						3				
				3	FSNG_NW_DTCT:+5V						2				
				4	FSNG_NW_DTCT	←	Old	New			1				
				5	FSNG_ST_DTCT:+5V						2				
				6	FSNG_ST_DTCT	←	Not set	Set			1				
				7	N.C.										
				T1	GND						4				
				CN111	PSU	1	FSNG_HTR:L						Drawer	M0525443 Fusing Unit	4
						2	FSNG_HTR:N								3
						1	FSNG_HTR:N								2
						2	FSNG_HTR:L								1
19	M0535422	CN232	BiCU	1	1BIN_LED:GND				CN1	1 Bin LED Board	4				
				-	N.C.						3				
				2	1BIN_LED:CTL	→	On	Off			2				
				3	1BIN_LED:+5VE						1				
				4	1BIN-T_PEXT_SN:GND						3				
				5	1BIN-T_PEXT_SN	←	Paper	No paper			2				
				6	1BIN-T_PEXT_SN:+5V						1				
				7	1BIN-T_PSN:GND						3				
				8	1BIN-T_PSN	←	Paper	No paper			2				
				9	1BIN-T_PSN:+5V						1				
				10	1BIN-T_PSN										
				20	M0525424	CN909	M0525404	1			P-END_SN:GND				CN928
2	P-END_SN:	←	Paper					No paper	2						
3	P-END_SN:+5V								1						
4	RMN_PSN:1:GND								CN929	Remaining Paper Sensor 1	3				
5	RMN_PSN:1	←	Paper					No paper			2				
6	RMN_PSN:1:+5V										1				
7	RMN_PSN:2:GND								CN930	Remaining Paper Sensor 2	3				
8	RMN_PSN:2	←	Paper					No paper			2				
9	RMN_PSN:2:+5V										1				

M052/M053/M054 Pin Assignment Lists (2/2)

SH-MF1 (M052/M053/M054) Pin Assignment Lists

Assign No.	Harness No.	Connector (FROM)			Signal Descriptions			Connector (TO)		
		No.	To	Pin No.	Signal Name	Directio	L	H	No.	Pin No.
31 (NA)	M0525444	CN906	M0525418 (NA)	1	N.C.					
				2	N.C.					
				3	FSNG_UNT_ST_DTCT				-	Fusing Unit Set Detection
				4	V					
31 (EU)	M0525445	CN906	M0525419 (EU)	1	FCTRY:DSTN				-	FCTRY:DSTN
				2	FCTRY:DSTN					
				3	FSNG_UNT_ST_DTCT				-	Fusing Unit Set Detection
				4	V					
32	G1685403	CN212	BiCU	1		←	SynchrOniz ed	Not synchrOniz ed	CN1	Synchronizing Detector Board
				2	SYNCH_DTCT_BRD					
				3	SYNCH_DTCT_BRD+5V					
				4	SYNCH_DTCT_BRD:GND					
				5	PLYGN_MTR+24VB				CN1	Polygon Motor
				6	PLYGN_MTR:GND					
				7	PLYGN_MTR:CTL	→	On	Off		
				8	PLYGN_MTR:LOCK	←	On	Off		
33	M0521480	CN918	M0525413	1	OPU:PW_KEY	←			CN1	Operation Panel
				2	OPU:+5VE					
				3	OPU:RX_RQ	←				
				4	OPU:GND					
				5	OPU:RX_DT	←				
				6	OPU:RX_CLK	→				
				7	OPU:GND					
				8	OPU:TX_CLK	→				
				9	OPU:TX_DT	→				
				10	OPU:+5V					
				11	OPU:+5V					
				12	OPU:+24VB					
34	M0521481	CN919	M0525414	1	OPU:+5V				CN10	Operation Panel
				2	OPU:USB-D					
				3	OPU:USB-D+					
				4	N.C.					
				5	OPU:GND					
35	M0525483	CN108	BiCU	A1	SBU:GND				CN300	SBU
				A2	SBU:SUB_SCN_GT	→	Image area	Margin		
				A3	SBU:GND					
				A4	SBU:TX_DT	→				
				A5	SBU:CLK	→				
				A6	SBU:LVDS:A2-	←				
				A7	SBU:LVDS:B2-	←				
				A8	SBU:LVDS:C2-	←				
				A9	SBU:LVDS:CLK2-	←				
				A10	SBU:GND					
				A11	SBU:LVDS:B1-	←				
				A12	SBU:LVDS:C1-	←				
				A13	SBU:GND					
				A14	SBU:GND					
				A15	SBU:ST_DTCT	←	Set	Not set		
				B1	SBU:GND					
				B2	SBU:GND					
				B3	SBU:GND					
				B4	SBU:LVDS:C1+	←				
				B5	SBU:LVDS:B1+	←				
				B6	SBU:GND					
				B7	SBU:LVDS:CLK2+	←				
				B8	SBU:LVDS:C2+	←				
				B9	SBU:LVDS:B2+	←				
				B10	SBU:LVDS:A2+	←				
				B11	SBU:CS	→	Active	Not Active		
				B12	SBU:RX_DT	←				
				B13	SBU:SUB_SCN_GT	→	Image area	Margin		
				B14	SBU:GND					
				B15	SBU:GND					
36	M0525480	CN938	M0525440	1	SBU:GND				CN301	SBU
				2	SBU:+5V					
				3	SBU:+5V					
				4	SBU:+10V					
				5	SBU:GND					
				6	SBU:GND					
				7	SBU:GND					
				8	SBU:GND					
				9	SBU:+3.3V					
				10	SBU:+3.3V					
				11	SBU:+3.3V					
				12	SBU:GND					
				13	SBU:GND					
				14	SBU:+5.5V					
				15	SBU:+5.5V					
				16	N.C.					
				17	SBU:LED_ON_CLK	←				
37	M0525481	CN938	M0525441	1	HPS:GND				CN939	Scanner HP Sensor
				2	HPS	←	Not HP	HP		
				3	HPS:+5V					
				4	CVR_SN:GND				CN940	Cover Sensor
				5	CVR_SN	←	Open	Close		
				6	CVR_SN:+5VE					
38	M0525485	CN937	M0525440	1	LED-DB:ON_CLK	→			CN321	LED Drive Board
				2	LED-DB:GND					
				3	LED-DB:ON	→	On	Off		
				4	LED-DB:+24VB					
				5	LED-DB:ERR	←	Normal	Error		
				6	LED-DB:ST_DTCT	←	Set	Not set		
				7	LED-DB:+5V					
39	M0265226	CN320	LED-DB	1	LED-B:GND				CN310	LED Board
				2	LED-B:LED.7	→	On	Off		
				3	LED-B:LED.6	→	On	Off		
				4	LED-B:LED.5	→	On	Off		
				5	LED-B:+24VB					
				6	LED-B:+24VB					
				7	LED-B:LED.4	→	On	Off		
				8	LED-B:LED.3	→	On	Off		
				9	LED-B:LED.2	→	On	Off		
				10	LED-B:LED.1	→	On	Off		
				11	LED-B:GND					
40	M0525385	CN3	SATIE	-	N.C.				CN941	HDD (Power)
				-	N.C.					
				1	HDD:+5VE					
				2	HDD:GND					

41	M0525386	CN2	SATIE	1	HDD:GND				CN942	HDD (SATA)	1
				2	HDD:TX+	→					2
				3	HDD:TX-	→					3
				4	HDD:GND						4
				5	HDD:RX-	←					5
				6	HDD:RX+	←					6
				7	HDD:GND						7
42	-	CN201	BICU	1	MIN_MTR:CLK	→			-	Main Motor	-
				2	MIN_MTR:CW/CCW	→	CCW	CW			-
				3	MIN_MTR:STRT	→	On	Off			-
				4	MIN_MTR:LOCK	←	On	Off			-
				5	MIN_MTR:+5V						-
				6	MIN_MTR:GND						-
				7	MIN_MTR:GND						-
				8	MIN_MTR:GND						-
				9	MIN_MTR:+24VS						-
				10	MIN_MTR:+24VS						-
43	-	CN216	BICU	1	TR_TH	←			-	Transfer Thermistor	-
				2	TR_TH:GND						-
44	-	CN244	BICU	1	AIOFAN:CTL	→	Off	On	-	AIO Fan	-
				2	AIOFAN:LOCK	←	Normal	Error			-
				3	AIOFAN:GND						-
45	-	CN203	BICU	1	RGST_CL+24VS				-	Registration Clutch	-
				2	RGST_CL:TRG	→	On	Off			-
46	-	CN204	BICU	1	P-FD_CL+24VS				-	Paper Feed Clutch	-
				2	P-FD_CL:TRG	→	On	Off			-
47	-	CN205	BICU	1	BYPSS_FD_CL+24VB				-	By-pass Feed Clutch	-
				2	BYPSS_FD_CL:TRG	→	On	Off			-
48	-	CN206	BICU	1	RLY_CL+24VS				-	Relay Clutch	-
				2	RLY_CL:TRG	→	On	Off			-
49	-	CN233	BICU	1	MC_CTR+24V				CN943	Mechanical Counter	-
				2	MC_CTR:CTL	→	Count	No count			-
50	-	CN105	BICU	1	PEACE:+5VE				CN1	MKB (Key Card)	6
				2	PEACE:+5VE					Special modified option	5
				3	PEACE:TX_DT	→					4
				4	PEACE:RX_DT	←					3
				5	PEACE:GND						2
				6	PEACE:GND						1
51	-	CN234	BICU	1	KY_CRD:+5V				CN3	MKB (Key Card)	13
				2	KY_CRD:ST_DTCT	←	Set	Not set		Special modified option	12
				3	KY_CRD:SZ:1	→					11
				4	KY_CRD:SZ:2	→					10
				5	KY_CRD:SZ:3	→					9
				6	KY_CRD:SZ:4	→					8
				7	KY_CRD:MD:1	→					7
				8	KY_CRD:MD:2	→					6
				9	KY_CRD:DUPX	→					5
				10	KY_CRD:MTR	→					4
				11	KY_CRD:GND						3
				12	KY_CRD:CTL						2
				13	KY_CRD:+24V	→	No count	Count			1
52	-	CN235	BICU	1	KY_CNTR:GND				CN944	Key Counter	4
				2	KY_CNTR:ST_DTCT	←	Set	Not set		Special modified option	3
				3	KY_CNTR:+24V						2
				4	KY_CNTR:CTL	→	No count	Count			1

M052/M053/M054 ELECTRICAL COMPONENT LAYOUT (1/2)

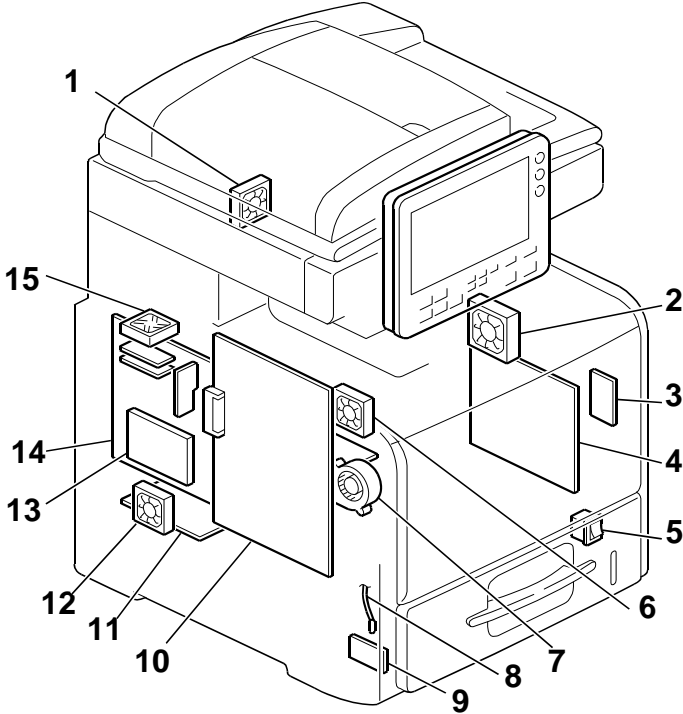


Fig. 1 m050v501

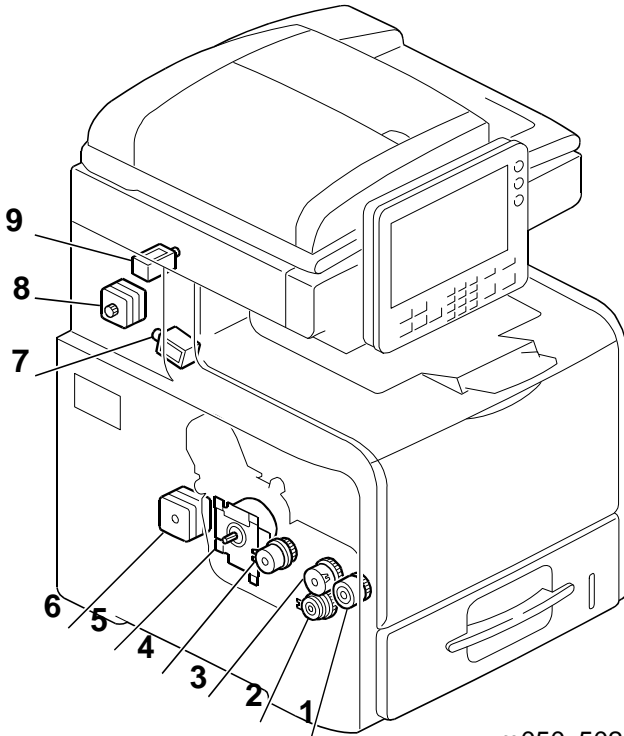


Fig. 2 m050v502

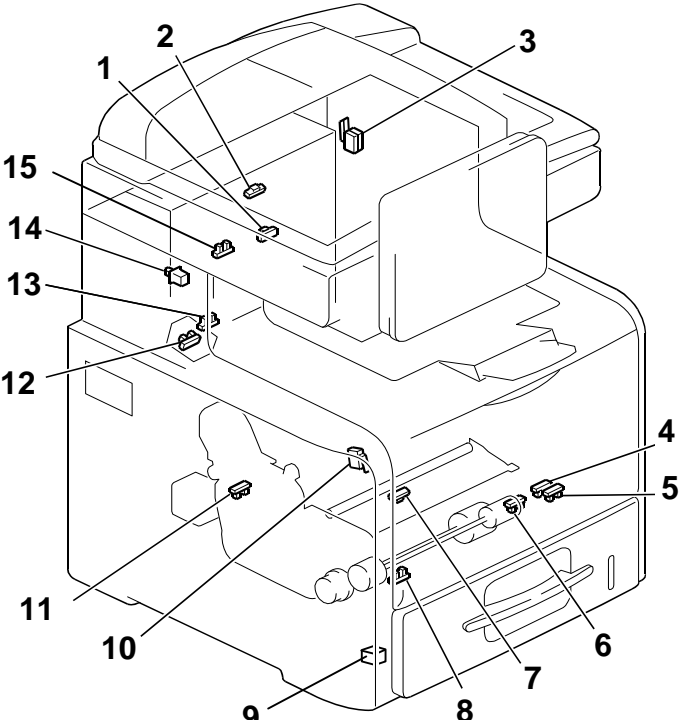


Fig. 3 m050v503

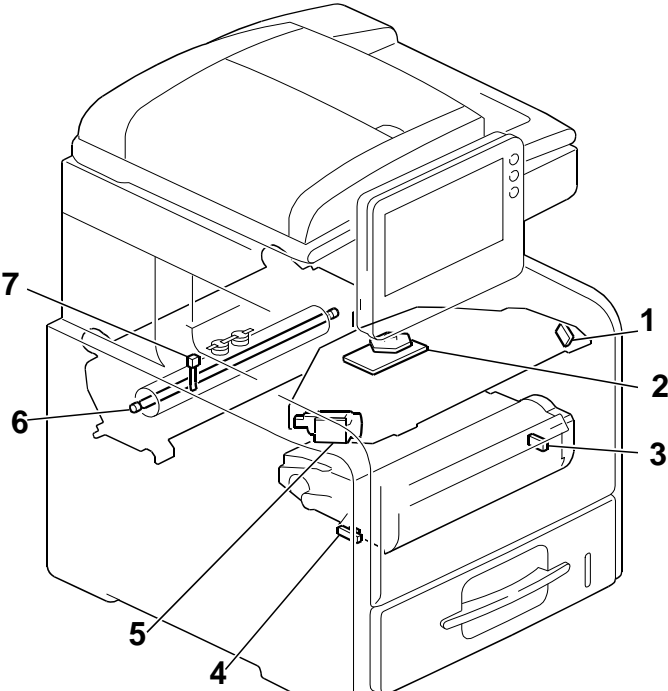


Fig. 4 m050v504

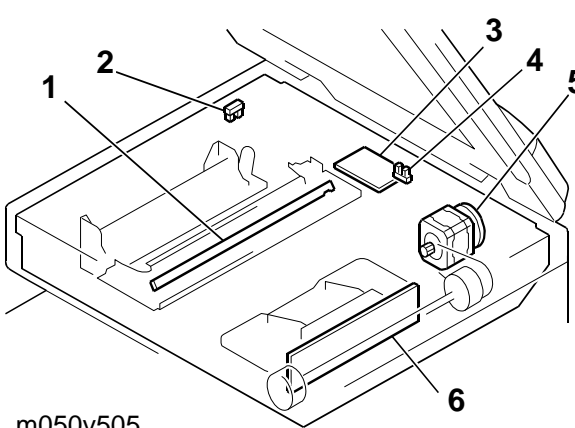


Fig. 5 m050v505

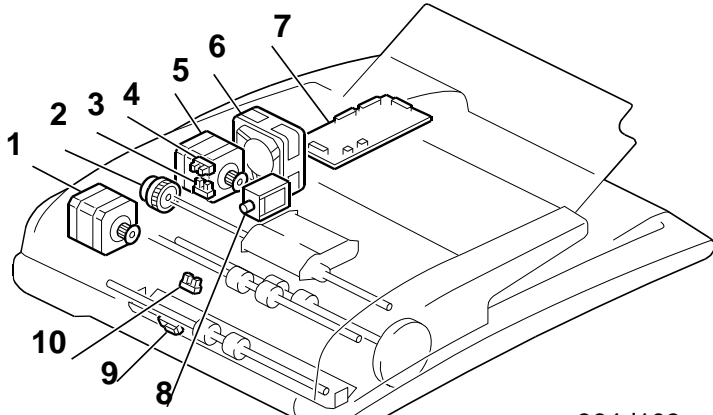


Fig. 6 m364d103

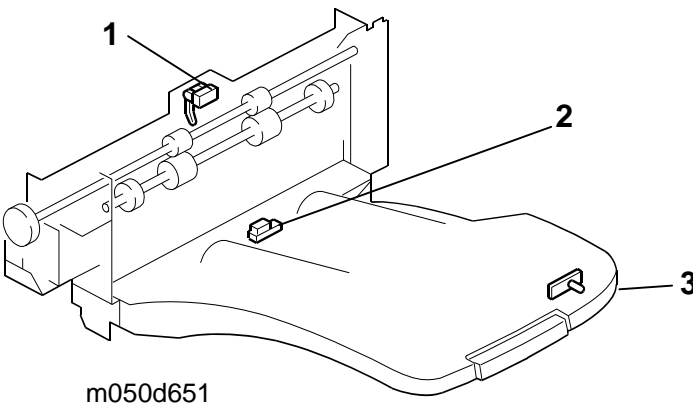


Fig. 7 m050d651

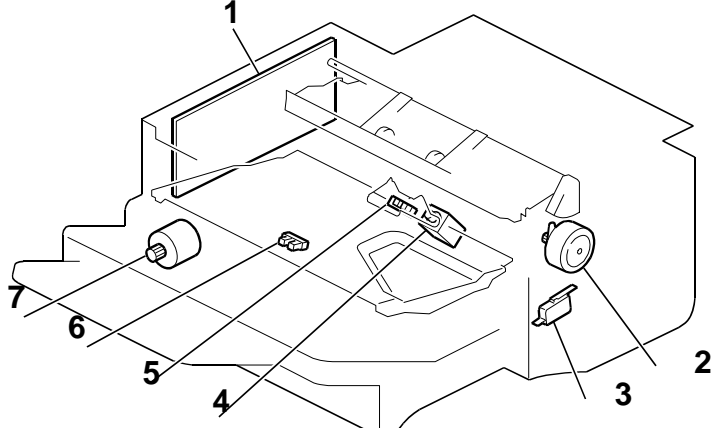


Fig. 8 m365d103

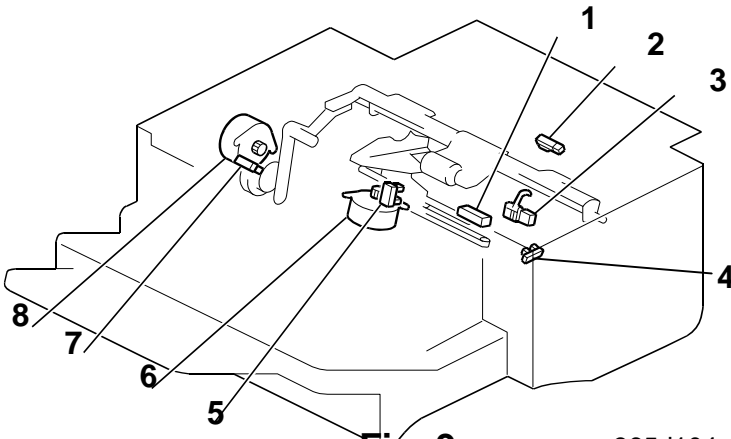


Fig. 9 m365d104

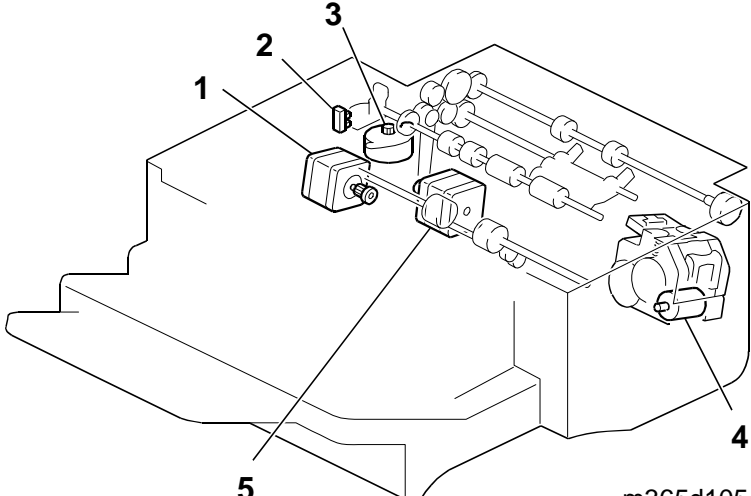


Fig. 10 m365d105



M052/M053/M054 ELECTRICAL COMPONENT LAYOUT (2/2)

Mainframe

Symbol	Index No.	Description	P to P	Page
Fans				
FAN1	Fig.1-12	PSU Fan 1	F4	1/3
FAN2	Fig.1-2	Exhaust Fan	B7	1/3
FAN3	Fig.1-1	Duplex Exhaust Fan	C8	1/3
FAN4	Fig.1-6	PSU Fan2	D7	1/3
FAN5	Fig.1-15	Controller Fan	D8	1/3
FAN6	Fig.1-7	AIO Fan	G7	1/3
Motors				
M1	Fig.5-5	Scanner Motor	C4	1/3
M2	Fig.2-6	Duplex Motor	C7	1/3
M3	Fig.2-8	Duplex Inverter Motor	C7	1/3
M4	Fig.4-2	Polygon Motor	D8	1/3
M5	Fig.2-5	Main Motor	F7	1/3
Clutches				
MC1	Fig.2-4	Registration Clutch	G7	1/3
MC2	Fig.2-2	Paper Feed Clutch	G7	1/3
MC3	Fig.2-1	By-pass Feed Clutch	G7	1/3
MC4	Fig.2-3	Relay Clutch	G7	1/3
Solenoids				
SOL1	Fig.2-7	Junction Gate 1 Solenoid	B7	1/3
SOL2	Fig.2-9	Junction Gate 2 Solenoid	F7	1/3
Switches				
SW1	Fig.1-5	Power Switch	E3	1/3
SW2	Fig.3-9	Tray Set Switch	A8	1/3
SW3	Fig.3-14	Duplex Open Switch	B7	1/3
SW4	Fig.3-3	Duplex Cover Switch 2	D8	1/3
SW5	Fig.3-10	Front Door Switch	E7	1/3
Lamp				
L1	Fig.4-6	Fusing Lamp	F4	

Symbol	Index	Description	P to P	Page
Boards				
PCB1	Fig.1-14	Controller Board	B5	1/3
PCB2	Fig.1-10	BICU	D6	1/3
PCB3	Fig.5-1	LED Board	D2	1/3
PCB4	Fig.5-3	LED Drive Board	D3	1/3
PCB5	Fig.5-6	SBU	D3	1/3
PCB6	Fig.1-11	PSU	E4	1/3
PCB7	Fig.1-9	Paper Size Sensor Board	A7	1/3
PCB8	Fig.4-5	LD Board	D8	1/3
PCB9	Fig.4-1	Synchronizin Detector Board	D8	1/3
PCB10	Fig.1-4	HVPS	E7	1/3
PCB11	Fig.1-3	RFID Board	E7	1/3
PCB12	Fig.4-3	RFID ID Chip	E8	1/3
PCB13	Fig.7-3	1 Bin LED Board	E7	1/3
Thermistors				
TH1	Fig.4-7	Fusing Thermistor	F4	1/3
TH2	Fig.1-8	Transfer Thermistor	F7	1/3
Other				
HDD1	Fig.1-13	HDD	B3	1/3
Sensors				
S1	Fig.5-2	Scanner HP Sensor	C4	1/3
S2	Fig.5-4	Cover Sensor	C4	1/3
S3	Fig.3-7	Registration Sensor	A8	1/3
S4	Fig.3-6	Paper End Sensor	A8	1/3
S5	Fig.3-5	Remaining Paper Sensor1	A8	1/3
S6	Fig.3-4	Remaining Paper Sensor2	A8	1/3
S7	Fig.3-8	By-pass Paper Sensor	B7	1/3
S8	Fig.4-4	Toner End Sensor	B7	1/3
S9	Fig.3-11	Duplex Relay Sensor	B7	1/3
S10	Fig.3-1	Relay Sensor	B7	1/3
S11	Fig.3-2	Duplex Inverter Sensor	C8	1/3
S12	Fig.3-15	Duplex Entrance Sensor	C8	1/3
S13	Fig.7-1	1 Bin Tray Paper Exit Sensor	F7	1/3
S14	Fig.7-2	1 Bin Tray Paper Sensor	F7	1/3
S15	Fig.3-13	Paper Overflow Sensor	F7	1/3
S16	Fig.3-12	Fusing Exit Sensor	F7	1/4

ARDF

Symbol	Index No.	Description	P to P	Page
Motors				
M1	1	Transport Motor	C7	2/3
M2	5	Feed Motor	D7	2/3
Sensors				
S1	3	Top Cover Sensor	C2	2/3
S2	4	Original Set Sensor	D2	2/3
S3	10	Inverter Sensor	D2	2/3
S4	9	Registration Sensor	E2	2/3
Magnetic Clutches				
MC1	2	Feed Clutch	D7	2/3
Solenoids				
SOL1	8	Inverter Solenoid	B4	2/3
FANS				
FAN1	6	Cooling Fan	B4	2/3
PCBs				
PCB1	7	Drive Board	C4	2/3

Internal Finisher (M054 only)

Symbol	Index No.	Description	P to P	Page
Sensors				
S1	Fig.10-2	Shift Roller HP Sensor	C2	3/3
S2	Fig.9-7	Gathering Roller HP Sensor	D2	3/3
S3	Fig.8-6	Tray Lower Limit Sensor	D2	3/3
S4	Fig.8-5	Paper Sensor	D2	3/3
S5	Fig.9-5	Jogger Fence HP Sensor	E2	3/3
S6	Fig.9-3	Staple Tray Paper Sensor	E2	3/3
S7	Fig.9-1	Paper Exit Sensor	F2	3/3
S8	Fig.9-4	Exit Guide Plate HP Sensor	F2	3/3
S9	Fig.9-2	Entrance Sensor	G2	3/3
Motors				
M1	Fig.10-5	Transport Motor	A9	3/3
M2	Fig.10-1	Paper Exit Motor	B9	3/3
M3	Fig.9-8	Gathering Roller Motor	C9	3/3
M4	Fig.10-3	Shift Roller Motor	D9	3/3
M5	Fig.9-6	Jogger Motor	D9	3/3
M6	Fig.8-2	Exit Guide Plate Motor	E9	3/3
M7	Fig.8-7	Tray Lift Motor	E9	3/3
M8	Fig.10-4	Stapler Motor	F9	3/3
Board				
PCB1	Fig.8-1	Main Board	G6	3/3
Switch				
SW1	Fig.8-3	Interlock Switch	B2	3/3
Solenoid				
SOL1	Fig.8-4	Pick-up Solenoid	B9	3/3

**A**



**C**

**D**

**E**

**F**

## G

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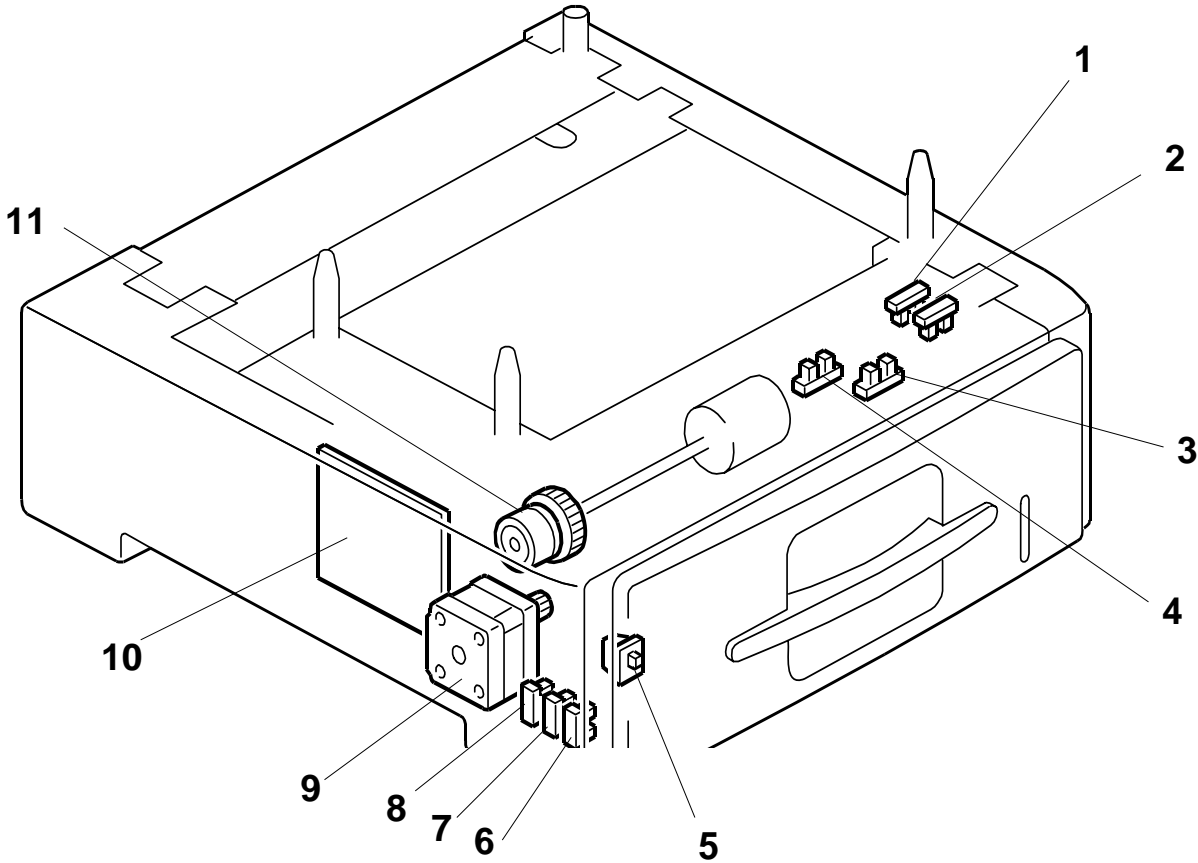
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# ELECTRICAL COMPONENT LAYOUT (M375/M376/ M386/M389)



Symbol	Index No.	Description	P to P
<b>Motors</b>			
M1	9	Paper Feed Motor	E9
<b>Sensors</b>			
S1	2	Remaining Paper Sensor 1	B2
S2	1	Remaining Paper Sensor 2	C2
S3	3	Vertical Transport Sensor	C2
S4	4	Paper End Sensor	C2
S5	6	Paper Size Sensor 1	D2
S6	7	Paper Size Sensor 2	D2
S7	8	Paper Size Sensor 3	E2
<b>Switches</b>			
SW1	5	Paper Tray Set Switch	E2
<b>Magnetic Clutches</b>			
MC1	11	Paper Feed Clutch	F9
<b>PCB</b>			
PCB1	10	Drive Board	F5