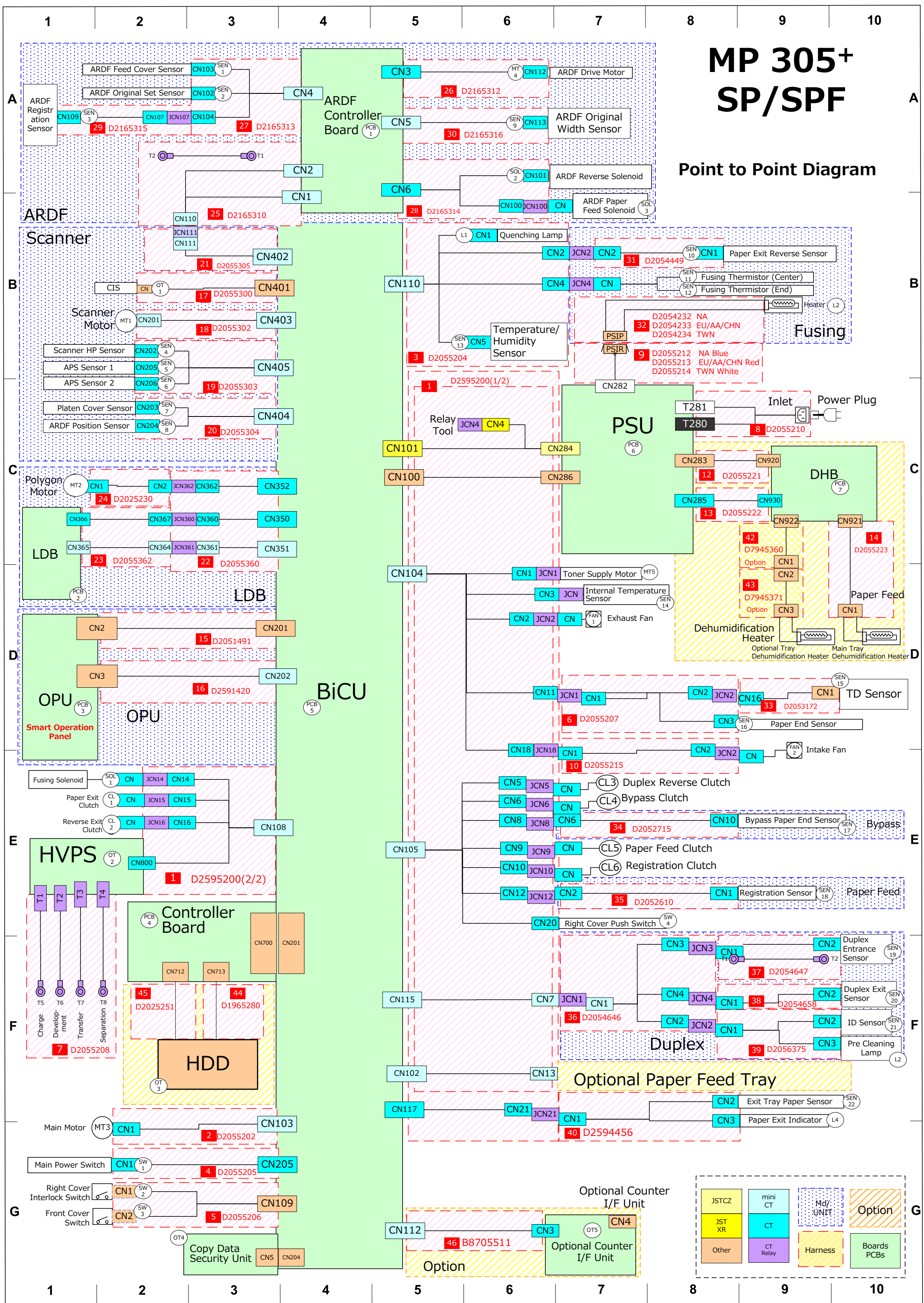




Symbol	Address		Part Name
	PtoP	Layout	
Motors			
MT1	B-2	Fig.1-5	Scanner Motor
MT2	C-2	Fig.7-1	Polygon Motor
MT3	G-2	Fig.8-2	Main Motor
MT4	A-7	-	ARDF Drive Motor
MT5	D-7	Fig.9-1	Toner Supply Motor
Sensors			
SEN1	A-2	-	ARDF Feed Cover Sensor
SEN2	A-2	-	ARDF Original Set Sensor
SEN3	A-1	-	ARDF Registration Sensor
SEN4	B-2	Fig.1-1	Scanner HP Sensor
SEN5	B-2	Fig.1-6	APS Sensor 1 (EU Only)
SEN6	C-2	Fig.1-7	APS Sensor 2
SEN7	C-2	Fig.1-4	Platen Cover Sensor
SEN8	C-2	Fig.1-3	ARDF Position Sensor
SEN9	A-7	-	ARDF Original Width Sensor
SEN10	B-7	Fig.2-1	Paper Exit Reverse Sensor
SEN11	B-8	Fig.2-6	Fusing Thermistor (Center)
SEN12	B-8	Fig.2-7	Fusing Thermistor (End)
SEN13	B-6	Fig.4-5	Temperature/Humidity Sensor
SEN14	D-7	Fig.6-8	Internal Temperature Sensor
SEN15	D-10	Fig.7-5	TD Sensor
SEN16	D-10	Fig.5-5	Paper End Sensor
SEN17	E-9	Fig.5-6	Bypass Paper End Sensor
SEN18	E-9	Fig.5-4	Registration Sensor
SEN19	F-10	Fig.4-1	Duplex Entrance Sensor
SEN20	F-10	Fig.4-3	Duplex Exit Sensor
SEN21	F-10	Fig.4-4	ID Sensor
SEN22	F-9	Fig.6-5	Exit Tray Paper Sensor
Lamps/Heaters			
L1	B-6	Fig.7-3	Quenching Lamp
L2	B-9	Fig.2-4	Heater (Fusing Lamp)
L3	F-10	Fig.7-4	Pre Cleaning Lamp
L4	F-9	Fig.6-2	Paper Exit Indicator

Symbol	Address		Part Name
	PtoP	Layout	
Clutches			
CL1	E-2	Fig.2- 3	Paper Exit Clutch
CL2	E-2	Fig.2-2	Reverse Exit Clutch
CL3	E-7	Fig.4-2	Duplex Reverse Clutch
CL4	E-7	Fig.5-3	Bypass Clutch
CL5	E-7	Fig.5-2	Paper Feed Clutch
CL6	E-7	Fig.5-1	Registration Clutch
Solenoids			
SOL1	E-2	Fig.8-1	Fusing Solenoid
SOL2	B-7	-	ARDF Reverse Solenoid
SOL3	B-7	-	ARDF Paper Feed Solenoid
Switches			
SW1	G-2	Fig.6-1	Main Power Switch
SW2	G-2	Fig.6-4	Right Cover Interlock Switch
SW3	G-2	Fig.6-3	Front Cover Switch
SW4	E-7	Fig.6-9	Right Cover Push Switch
PCBs			
PCB1	A-4	-	ARDF Controller Board
PCB2	D-2	Fig.7-2	LDB
PCB3	D-2	-	OPU
PCB4	E-3	Fig.3-6	Controller Board
PCB5	D-4	Fig.3-8	BiCU
PCB6	C-7	Fig.3-2	PSU
PCB7	C-9	Fig.3-3	DHB
Fans			
FAN1	D-7	Fig.6-7	Exhaust Fan
FAN2	E-9	Fig.6-6	Intake Fan
Others			
OT1	B-2	Fig.1-2	CIS
OT2	E-2	Fig.3-4	HVPS
OT3	F-3	Fig.3-7	HDD
OT4	G-3	Fig.3-1	Copy Data Security Unit
OT5	G-7	Fig.3-4	Optional Counter I/F Unit
OT6	D-10	Fig.5-7	Main Tray Dehumidification Heater
OT7	D-10	-	Optional Tray Dehumidification Heater

MP 305+ SP/SPF Component Layout

RTB 56
ARDF diagram added

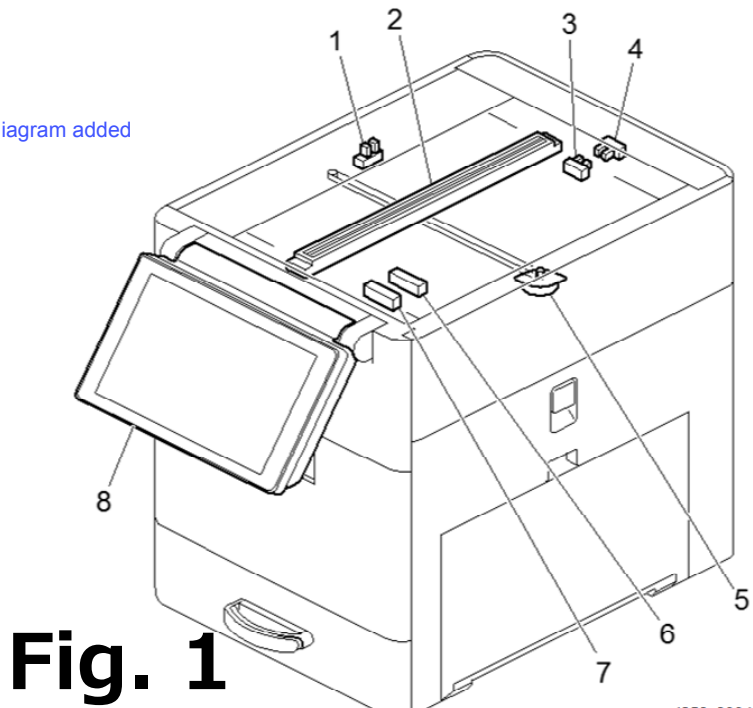


Fig. 4

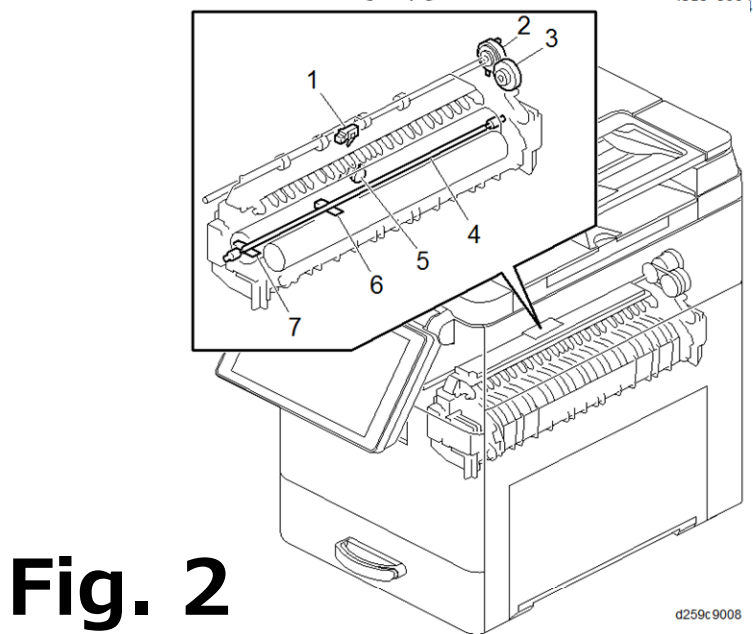
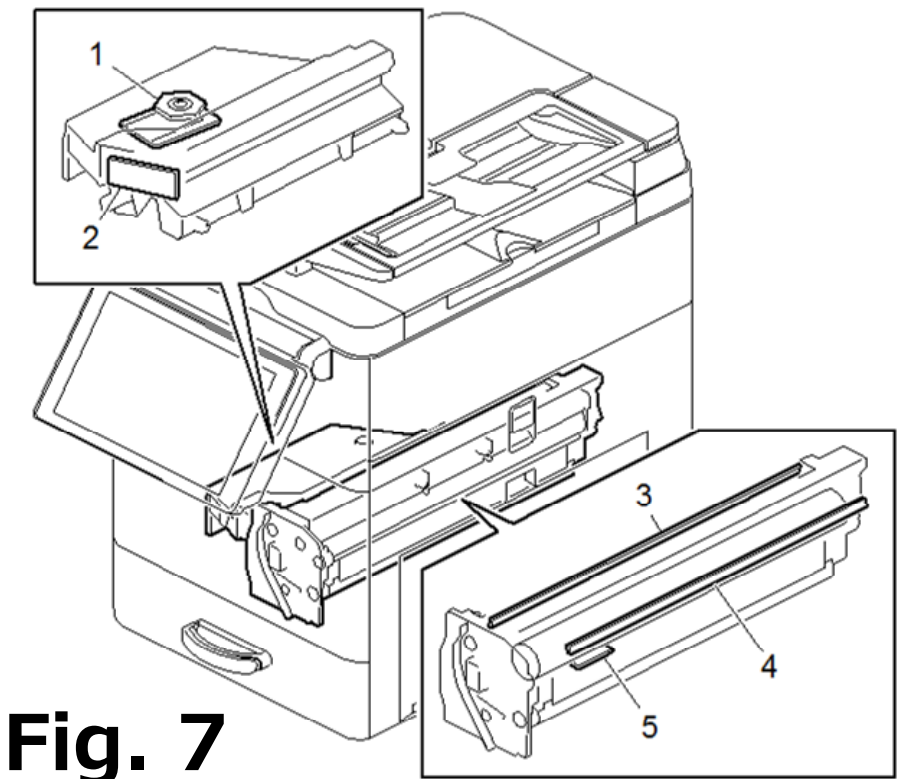
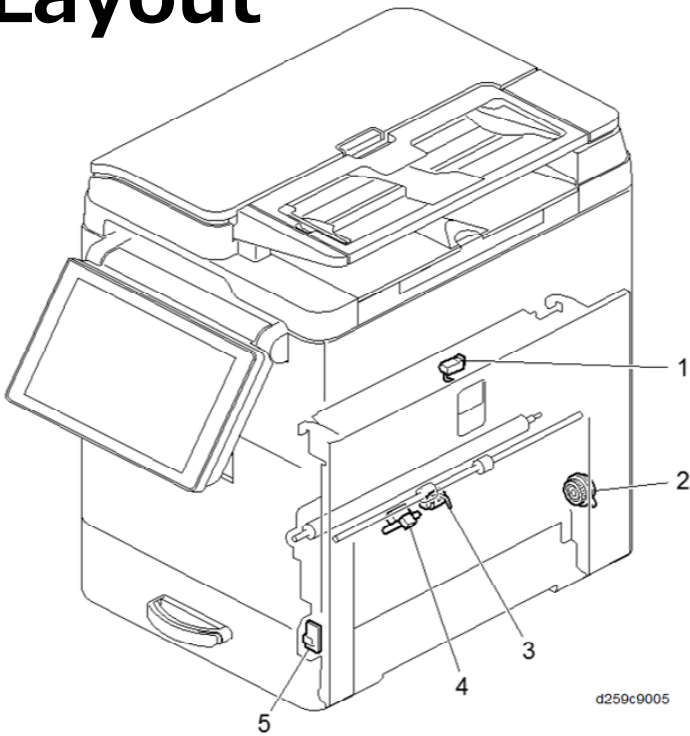


Fig. 5

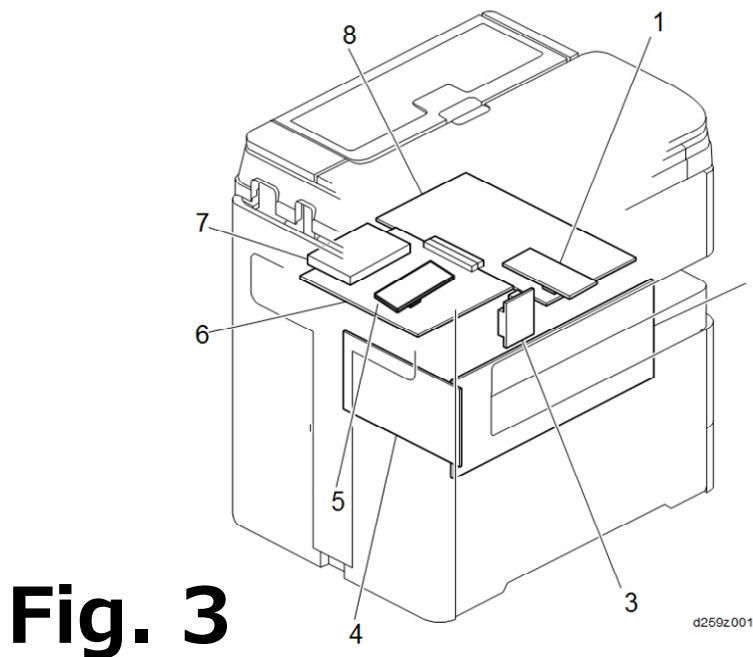
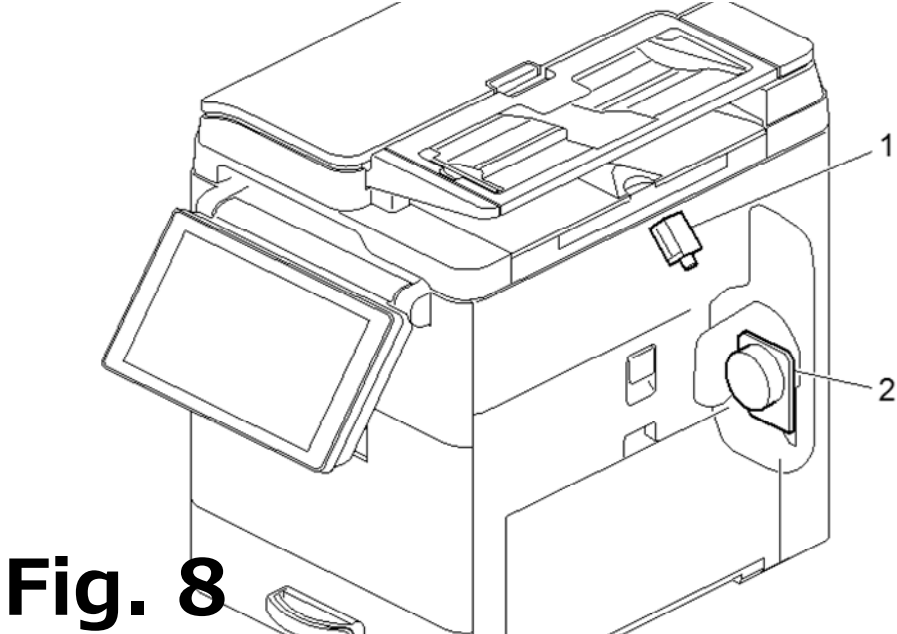
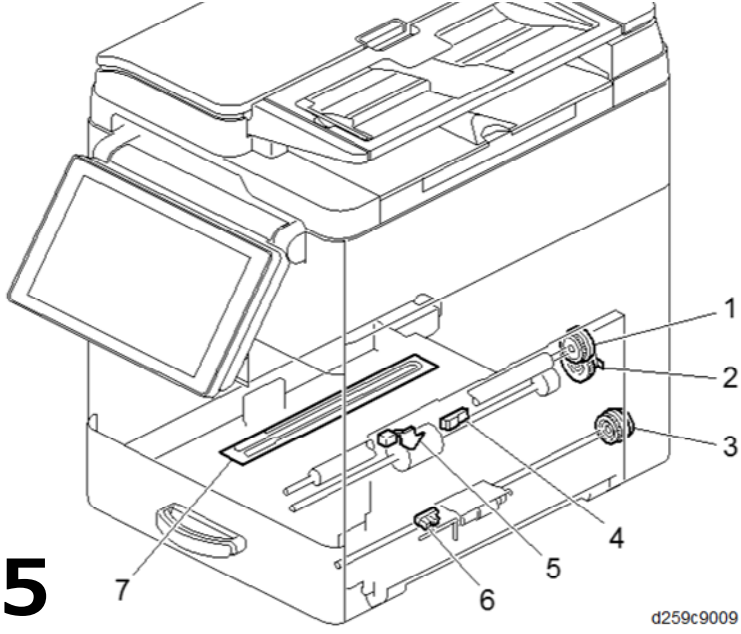
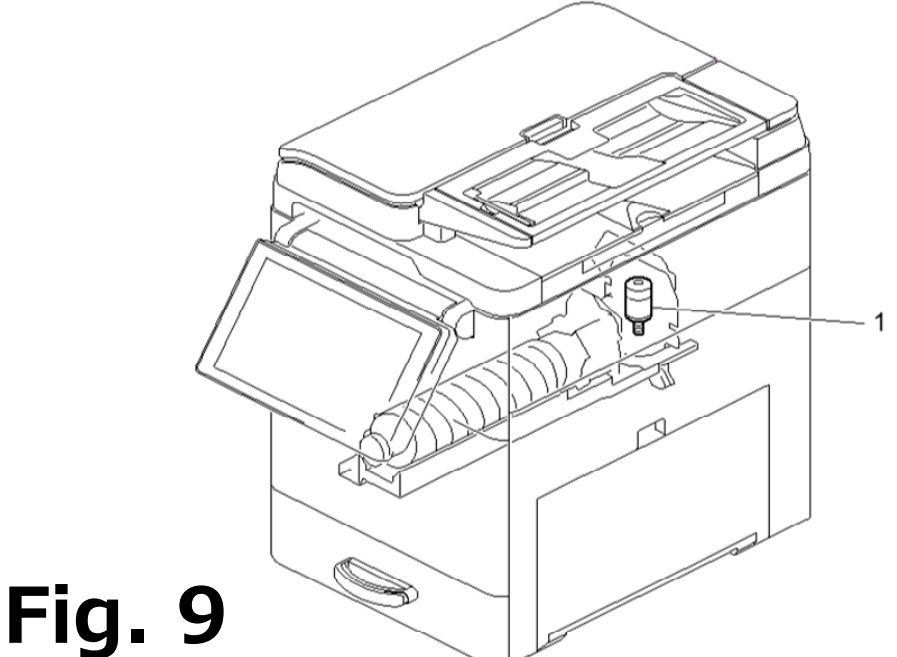
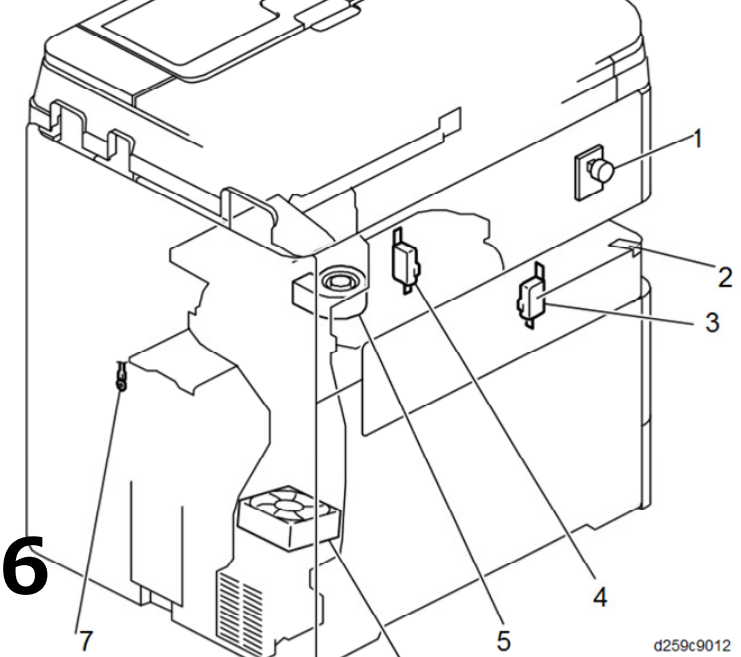


Fig. 6



MP305+ SP/SPF Harness Pin Assignment List

Harness Number	Harness P/N	Connector [FROM]			Signal Information	Relay Harness No.	Connector [TO]		
		Number	To	Pin#			Number	To	Pin#
1	D2055200 D2595200	CN100	BiCU CN100	1	+24V	None	CN286	PSU CN286	6
				2	+5V				5
				3	+5VX				4
				4	GND				3
				5	GND				2
				6	GND				1
		CN101	BiCU CN101	1	AC Voltage Detection	None	CN284	PSU CN284	11
				2	Main Tray Dehumidification Heater: Relay				10
				3	Fusing Lamp: Trigger: Sub				9
				4	Fusing Lamp: Trigger: Main				8
				5	Fusing Lamp: Relay				7
				6	Energy Save Signal				6
				7	Zero-cross Signal				5
				8	GND				4
				9	+24VR				3
		JCN4	Relay tool	1	Relay tool: -				2
				2	Relay tool: +				1
		CN102	BiCU CN102	1	Bank Motor Clock2	None	CN13	Optional Paper Feed Tray	11
				2	Bank Motor Clock1				10
				3	+5V_IO				9
				4	GND				8
				5	Bank: SPIClock				7
				6	Bank: SPIReceive				6
				7	Bank: SPITransmit				5
				8	GND				4
				9	GND				3
				10	+24V				2
				11	+24V				1
		CN104	BiCU CN104	1	Toner Supply Motor: ControlA	None	JCN1	Toner Supply Motor	2
				2	Toner Supply Motor: ControlB				1
				3	GND	None	CN3	Internal Temperature Sensor	2
				4	Analog Feedback(Internal Temperature Sensor)				1
				5	+24V	None	JCN2	Exhaust Fan	4
				6	PWM_ Exhaust Fan/Lock				3
				7	GND				2
				8	PWM_ Exhaust Fan/Control				1
				9	NC				-
				10	GND	[6] D2055207 JCN1	CN11	TD Sensor Paper End Sensor	8
				11	TD Sensor: Clock				7
				12	3.3V				6
				13	TD Sensor: SEL				5
				14	TD Sensor: SDA				4
				15	TD Sensor: SCL	[10] D2055215 CN1	JCN18	Intake Fan	3
				16	GND				2
				17	Paper End Sensor				1
				18	Intake Fan: Control				4
				19	Intake Fan:Lock				3
				20	GND				2
		CN105	BiCU CN105	-	N.C.				1
				1	+24VS	None	JCN5	Duplex Reverse Clutch	2
				2	Duplex Reverse Clutch				1
				3	+24VS	None	JCN6	Bypass Clutch	2
				4	Bypass Clutch				1
				5	+24VS	None	JCN9	Paper Feed Clutch	3
				-	N.C.				2
				6	Paper Feed Clutch				1
2	D2055200 D2595200	CN105	BiCU CN105	7	+24VS	None	D2052610 CN2	Registration Clutch	2
				8	Registration Clutch				1
				9	GND				3
				10	Registration Sensor				2
				11	+5V_IO				1
				12	GND				3
				13	Bypass Paper End Sensor				2
				14	+5V_IO				1
				15	Right Cover Open/Close Switch	None	JCN20	Right Cover Open/Close Switch	2
				16	GND				1
		CN108	BiCU CN108	1	+24VS	None	JCN14	Fusing Solenoid	2
				2	Fusing Solenoid				1
				3	+24VS	None	JCN15	Paper Exit Clutch	3
				-	N.C.				2
				4	Paper Exit Clutch				1
				5	+24VS	None	JCN16	Reverse Exit Clutch	2
				6	Reverse Exit Clutch				1
				7	HVPS/SeparationDC/(-): PWM	None	CN800	HVPS	12
				8	HVPS/SeparationDC/(-): Error				11
				9	HVPS/TransferDC/(+): Output V FB				10
				10	HVPS/TransferDC/(-): PWM				9
				11	HVPS/TransferDC/(+): PWM				8
				12	HVPS/DevelopmentDC/(-): PWM				7
				13	HVPS/ChargeDC/(-): PWM				6
				14	HVPS/TransferDC/(+)&(-): Error				5
				15	HVPS/DevelopmentDC/(-): Error				4
				16	HVPS/ChargeDC/(-): Error				3
				17	GND				2
				18	+24VS				1
		CN115	BiCU CN115	1	PCL: Control	[36] D2054646 JCN1	CN7	ID Sensor Duplex Entrance Sensor Duplex Exit Sensor PCL	12
				2	+24VS				11
				3	Analog Feedback (ID Sensor)				10
				4	PWM ID Sensor				9
				5	GND				8
				6	+3.3V				7
				7	GND				6
				8	Duplex Entrance Sensor				5
				9	+5V_IO				4
				10	GND				3
				11	Duplex Exit Sensor				2
				12	+5V_IO				1
3	D2055204	CN103	BiCU CN103	1	Main Motor: SW: Gain	None	CN1	Main Motor	10
				2	Main Motor: CLK				9
				3	Main Motor: Brake				8
				4	Main Motor: Rotation				7
				5	Main Motor: Start				6
				6	Main Motor: Lock				5
				7	GND				4
				8	GND				3
				9	+24VS				2
				10	+24VS				1
3	D2055204	CN110	BiCU CN110	1	Quenching Lamp: Control	None	CN1	Quenching Lamp	2
				2	+24VS				1
				3	GND	Fusing JCN4	CN2	Paper Exit Reverse Sensor	3
				4	Paper Exit Reverse Sensor				2
				5	+5V_IO				1

MP305+ SP/SPF Harness Pin Assignment List

Harness Number	Harness P/N	Connector [FROM]			Signal Information	Relay Harness No.	Connector [TO]		
		Number	To	Pin#			Number	To	Pin#
18	D2055302	CN403	BICU CN403	1	FB_A	None	CN201	Scanner Motor	4
				2	FB_B				3
				3	FB_A_				2
				4	FB_B_				1
19	D2055303	CN405	BICU CN405	1	GND	None	CN202	Scanner HP Sensor	3
				2	HPS				2
				3	+5V_SCN1				1
				4	GND		CN205	APS Sensor 1	3
				5	XAPS_1				2
				6	+5V_APS				1
				7	GND		CN206	APS Sensor 2	3
				8	XAPS_2				2
				9	+5V_APS				1
20	D2055304	CN404	BICU CN404	1	GND	None	CN203	Platen Cover Sensor	3
				2	X_AKS				2
				3	+5VE_Z				1
				4	GND	None	CN204	ARDF Position Sensor	3
				5	X_LUS				2
				6	+5V_SCN3				1
21	D2055305	CN402	BICU CN402	1	REV_SOL	[25] D2165310 CN110	JCN111	DFRB	11
				2	FEED_SOL				10
				3	+24V				9
				4	+24V				8
				5	DF_WSS2				7
				6	DF_WSS1				6
				7	DF_WSS4				5
				8	DF_WSS5				4
				9	DF_WSS3				3
				10	X_COV				2
				11	+5V_SCN3				1
				12	MOTOR(+)				22
				13	B_OUT				21
				14	MOTOR(-)				20
				15	A_OUT				19
				16	+5V_SCN1				18
				17	X_REG				17
				18	GND				16
				19	+5VE_Z				15
				20	X_DOC				14
				21	X_DFSET				13
				22	GND				12
22	D2055360	CN350	BICU CN350	1	LDD2_N	[23] D2055362 CN367	JCN360	LDB	4
				2	LDD2				3
				3	LDD1_N				2
				4	LDD1				1
		CN351	BICU CN351	1	GND	[23] D2055362 CN364	JCN361	LDB	12
				2	GND				11
26	D2165312	CN3	DFRB	3	PW: +5V (Scanner)	None	CN112	ARDF Drive Motor	4
				4	GND				3
				5	エンコーダー-B				2
				6	エンコーダー-A				1

Harness Number	Harness P/N	Connector [FROM]			Signal Information	Relay Harness No.	Connector [TO]		
		Number	To	Pin#			Number	To	Pin#
		CN352	BICU CN352	1	+24V	[24]D2025230 CN2	JCN362	Polygon Motor	5
				2	GND				4
				3	PMON_N				3
				4	PMRDY_N				2
				5	PMCLK				1
23	D2055362	CN364	[22]D2055360 JCN361	1	GND	None	CN365	LDB	12
				2	GND				11
				3	DETP_N				10
				4	SYDO	None	CN365	LDB	9
				5	SYDI				8
				6	SYCLK				7
				7	SYCS_N				6
				8	DROPEN				5
				9	ERR_N				4
				10	APC_N				3
				11	+5VS				2
				12	+5VS				1
		CN367	[22]D2055360 JCN360	1	LDD2_N	None	CN366	LDB	4
				2	LDD2				3
				3	LDD1_N				2
				4	LDD1				1
24	D2025230	CN2	[22]D2055360 JCN362	1	+24V	None	CN1	Polygon Motor	5
				2	GND				4
				3	PMON_N				3
				4	PMRDY_N				2
				5	PMCLK				1
25	D2165310	CN110	[21]D2055305 JCN111	1	REV_SOL	None	CN1	DFRB	11
				2	FEED_SOL				10
				3	+24V				9
				4	+24V				8
				5	DF_WSS2				7
				6	DF_WSS1				6
				7	DF_WSS4				5
				8	DF_WSS5				4
				9	DF_WSS3				3
				10	X_COV				2
				11	+5V_SCN3				1
				12	MOTOR(+)	None	CN2	DFRB	11
				13	B_OUT				10
				14	MOTOR(-)				9
				15	A_OUT				8
				16	+5V_SCN1				7
				17	X_REG				6
				18	GND				5
				19	+5VE_Z				4
				20	X_DOC				3
				21	X_DFSET				2
				22	GND				1
26	D2165312	T1	DFRB		FG	None	T2		
26	D2165312	CN3	DFRB	1	Motor(-)	None	CN112	ARDF Drive Motor	6
				2	Motor(+)				5

