Explanatory notes		
Header		
Color	Number	Symbol
	20	BLM
	7	BM
	12	OT
	34	FAN
	3	HT
	2	HVP
	4	ID
	8	LED
	62	SEN
	8	CL
	12	SOL
	13	STM
	14	SW
	2	SD
	0	TS
	0	RL

Pro751EX/651EX POINT TO POINT DIAGRAM (1/3)

Pro751EX/651EX POINT TO POINT DIAGRAM (2/3)

Fusing Unit

Mainframe

Heaters for EXP
- HT3 Fusing Lamps: Heating Roller A: End
- HT4 Fusing Lamp: Heating Roller B: Auxiliary
- HT5 Fusing Lamp: Pressure Roller: End

ITB Unit

Mainframe

TDRB (Transfer Drive Relay Board) PCB7

HVP1 ITB Unit Transfer Power Pack

AC Transfer Power Pack (Option) HVP5

Decurler Unit (Option)

Mainframe

DDRB (Option) PCB35

Left Drawer

Mainframe

Right Drawer

Mainframe

DRB PCB6

Separation Power Pack HVP2

Explanatory notes

Header		
Color	Number	Symbol
	2	BLM
	1	BM
	0	OT
	7	FAN
	8	HT
	3	HVP
	0	ID
	1	LED
	51	SEN
	0	CL
	6	SOL
	15	STM
	2	SW
	0	SD
	4	TS
	2	RL

Pro751EX/651EX POINT TO POINT DIAGRAM (3/3)

Main Board (PCB1)

Original Width 1 Sensor — S1 — GND2 CN300-3, XWSZSN2 CN300-2, +5V CN300-1
Original Width 2 Sensor — S2 — GND2 CN301-3, XWSZSN3 CN301-2, +5V CN301-1
Original Width 3 Sensor — S3 — GND2 CN302-3, XWSZSN4 CN302-2, +5V CN302-1
Original Width 4 Sensor — S4 — GND2 CN303-3, XWSZSN5 CN303-2, +5V CN303-1
Original Width 5 Sensor — S5 — GND2 CN317-3, XWSZSN1 CN317-2, +5V CN317-1

D5225412

GND2	CN200-1	GND2	CN200-15	GND2	CN103-1		
XWSZSN2	CN200-2	XWSZSN2	CN200-14	XWSZSN2	CN103-2		
+5V	CN200-3	+5V	CN200-13	+5V	CN103-3		
GND2	CN200-4	GND2	CN200-12	GND2	CN103-4		
XWSZSN3	CN200-5	XWSZSN3	CN200-11	XWSZSN3	CN103-5		
+5V	CN200-6	+5V	CN200-10	+5V	CN103-6		
GND2	CN200-7	GND2	CN200-9	GND2	CN103-7		
XWSZSN4	CN200-8	XWSZSN4	CN200-8	XWSZSN4	CN103-8		
+5V	CN200-9	+5V	CN200-7	+5V	CN103-9		
GND2	CN200-10	GND2	CN200-6	GND2	CN103-10		
XWSZSN5	CN200-11	XWSZSN5	CN200-5	XWSZSN5	CN103-11		
+5V	CN200-12	+5V	CN200-4	+5V	CN103-12		
GND2	CN200-13	GND2	CN200-3	GND2	CN103-13		
XWSZSN1	CN200-14	XWSZSN1	CN200-2	XWSZSN1	CN103-14		
+5V	CN200-15	+5V	CN200-1	+5V	CN103-15		

SN19 — Pick-up Roller HP Sensor — GND2 CN304-3, XPICKUPHP CN304-2, +5V CN304-1 → GND2 CN117-1, XPICKUPHP CN117-2, +5V CN117-3

Original Set Sensor — S6 — GND2 CN315-3, XSETSN CN315-2, +5VE CN315-1
Bottom Plate HP Sensor — S7 — GND2 CN316-3, XSITAHP CN316-2, +5V CN316-1
Feed Cover Sensor — S8 — GND2 CN318-3, XCOVERSN CN318-2, +5V CN318-1
Bottom Plate Position Sensor — S9 — GND2 CN321-3, XSITAPOSN CN321-2, +5V CN321-1

D5225451

GND2	CN201-1	GND2	CN201-3	GND2	CN107-1		
XSETSN	CN201-2	XSETSN	CN201-2	XSETSN	CN107-2		
+5VE	CN201-3	+5VE	CN201-1	+5VE	CN107-3		
				GND2	CN107-4		
				XSITAHP	CN107-5		
				+5V	CN107-6		
				GND2	CN107-7		
				XCOVERSN	CN107-8		
				+5V	CN107-9		
				GND2	CN107-10		
				XSITAPOSN1	CN107-11		
				+5V	CN107-12		

D5225431

GND2	CN203-1	GND2	CN203-3				
XSITAHP	CN203-2	XSITAHP	CN203-2				
+5V	CN203-3	+5V	CN203-1				

D5225446

GND2	CN204-1	GND2	CN204-6				
XCOVERSN	CN204-2	XCOVERSN	CN204-5				
+5V	CN204-3	+5V	CN204-4				
GND2	CN204-4	GND2	CN204-3				
XSITAPOSN	CN204-5	XSITAPOSN	CN204-2				
+5V	CN204-6	+5V	CN204-1				

B6525401

GND2	CN256-1	GND2	CN256-3				
XEXSN	CN256-2	XEXSN	CN256-2				
+5V	CN256-3	+5V	CN256-1				

B6525461

GND2	CN206-1	GND2	CN206-6				
XEXSN	CN206-2	XEXSN	CN206-5				
+5V	CN206-3	+5V	CN206-4				
GND2	CN206-4	GND2	CN206-3				
XREGSN	CN206-5	XREGSN	CN206-2				
+5V	CN206-6	+5V	CN206-1				

D5225406

GND2	CN104-1						
XNIPIN	CN104-2						
+5V	CN104-3						
GND2	CN104-4						
XATACK	CN104-5						
+5V	CN104-6						
GND2	CN104-7						
XBUNRI	CN104-8						
+5V	CN104-9						
GND2	CN104-10						
XEXSN	CN104-11						
5V	CN104-12						
GND2	CN104-13						
XREGSN	CN104-14						
+5V	CN104-15						

Upper Inverter Sensor — S10 — GND2 CN319-3, XREVSN_TOP CN319-2, +5V CN319-1

D5225456

GND2	CN202-1	GND2	CN202-3	GND2	CN108-1		
XREVSN_TOP	CN202-2	XREVSN_TOP	CN202-2	XREVSN_TOP	CN108-2		
+5V	CN202-3	+5V	CN202-1	+5V	CN108-3		
				N.C.	CN108-4		

Lower Inverter Sensor — S20 — GND2 CN320-3, XREVSN_BTM CN320-2, +5V CN320-1 → GND2 CN109-1, XREVSN_BTM CN109-2, +5V CN109-3

Original Length 1 Sensor — S11 — +5V CN312-4, LSZSNLG CN312-3, GND2 CN312-2, LSZSN_EXGND CN312-1
Original Length 2 Sensor — S12 — +5V CN313-4, LSZSNA4 CN313-3, GND2 CN313-2, LSZSN_EXGND CN313-1
Original Length 3 Sensor — S13 — +5V CN314-4, LSZSNB5 CN314-3, GND2 CN314-2, LSZSN_EXGND CN314-1

D5225436

+5V	CN106-1						
LSZSNLG	CN106-2						
GND2	CN106-3						
EXGND	CN106-4						
+5V	CN106-5						
LSZSNA4	CN106-6						
GND2	CN106-7						
EXGND	CN106-8						
+5V	CN106-9						
LSZSNB5	CN106-10						
GND2	CN106-11						
EXGND	CN106-12						
N.C.	CN106-13						

DF Position Sensor — S21 — GND2 CN310-3, XLIFTSN CN310-2, +5VE CN310-1 → GND2 CN105-1, XLIFTSN CN105-2, +5VE CN105-3

APS Start Sensor — S22 — GND2 CN311-3, XAPSSN CN311-2, +5V CN311-1 → GND2 CN105-4, XAPSSN CN105-5, +5V CN105-6

B4775611

Interval Sensor — S14 — GND2 CN305-3, XNIPIN CN305-2, +5V CN305-1

D5225412

GND2	CN205-1	GND2	CN205-9				
XNIPIN	CN205-2	XNIPIN	CN205-8				
+5V	CN205-3	+5V	CN205-7				
GND2	CN205-4	GND2	CN205-6				
XATACK	CN205-5	XATACK	CN205-5				
+5V	CN205-6	+5V	CN205-4				
GND2	CN205-7	GND2	CN205-3				
XBUNRI	CN205-8	XBUNRI	CN205-2				
+5V	CN205-9	+5V	CN205-1				

Skew Correction Sensor — S15 — GND2 CN306-3, XATACK CN306-2, +5V CN306-1
Seperation Sensor — S16 — GND2 CN307-3, XBUNRI CN307-2, +5V CN307-1

D5225406

Exit Sensor — S17 — GND2 CN308-3, XEXSN CN308-2, +5V CN308-1

B6525461

Registration Sensor — S18 — GND2 CN309-3, XREGSN CN309-2, +5V CN309-1

D5225431

GND2	CN116-1						
INPORT1(Rsv)	CN116-2						
+5V	CN116-3						
GND2	CN116-4						
INPORT2(Rsv)	CN116-5						
+5V	CN116-6						
N.C.	CN116-7						

B4775691

+24V	CN113-1						
+24V	CN113-2						
GND1(N.C.)	CN113-3						
M1_A	CN113-4						
M1_AB	CN113-5						
M1_B	CN113-6						
M1_BB	CN113-7						
+24V	CN113-8						
+24V	CN113-9						
GND1(N.C.)	CN113-10						
M2_A	CN113-11						
M2_AB	CN113-12						
M2_B	CN113-13						
M2_BB	CN113-14						

+2	CN3						
+24V	CN33						
M1_A	CN331-1						
M1_AB	CN331-5						
M1_B	CN331-7						
M1_BB	CN331-1						

M1 — Feed Motor

+24V	CN332-3						
+24V	CN332-9						
M2_A	CN332-1						
M2_AB	CN332-5						
M2_B	CN332-7						
M2_BB	CN332-11						

M2 — Transport Motor

+24V CN112-1, M4_A CN112-2, M4_AB CN112-3, +24V CN112-4, M4_B CN112-5, M4_BB CN112-6

M4 — Upper Inverter Motor

B6525422

+24V	CN115-1						
M3_A	CN115-2						
M3_AB	CN115-3						
+24V	CN115-4						
M3_B	CN115-5						
M3_BB	CN115-6						
+24V	CN115-7						
M5_A	CN115-8						
M5_AB	CN115-9						
+24V	CN115-10						
M5_B	CN115-11						
M5_BB	CN115-12						

+24V	CN336-6	+24V	CN336-1				
M3_A	CN336-5	M3_A	CN336-2				
M3_AB	CN336-4	M3_AB	CN336-3				
+24V	CN336-3	+24V	CN336-4				
M3_B	CN336-2	M3_B	CN336-5				
M3_BB	CN336-1	M3_BB	CN336-6				

M3 — Exit Motor

+24V	CN337-6	+24V	CN337-1				
M5_A	CN337-5	M5_A	CN337-2				
M5_AB	CN337-4	M5_AB	CN337-3				
+24V	CN337-3	+24V	CN337-4				
M5_B	CN337-2	M5_B	CN337-5				
M5_BB	CN337-1	M5_BB	CN337-6				

M5 — Lower Inverter Motor

+24V CN110-1, M7_A CN110-2, M7_AB CN110-3, M7_B CN110-4, M7_BB CN110-5, +24V CN110-6

M7 — Bottom Plate Motor

D5225441

+24V	CN111-1						
+24V2	CN111-2						
GND1(N.C.)	CN111-3						
M6_A	CN111-4						
M6_AB	CN111-5						
M6_B	CN111-6						
M6_BB	CN111-7						
N.C	CN111-8						

+24V	CN330-7	+24V	CN330-1				
+24V	CN330-6	+24V	CN330-2				
GND1(N.C.)	CN330-5	GND1(N.C.)	CN330-3				
M6_A	CN330-4	M6_A	CN330-4				
M6_AB	CN330-3	M6_AB	CN330-5				
M6_B	CN330-2	M6_B	CN330-6				
M6_BB	CN330-1	M6_BB	CN330-7				

M6 — Pick-up Motor

B6525426

+24V	CN114-1						
N.C.	CN114-2						
XRSOL_TOP	CN114-3						
+24V	CN114-4						
N.C.	CN114-5						
XRSOL_BTM	CN114-6						
+24V(N.C.)	CN114-7						
XSTAMP(N.C.)	CN114-8						
N.C.	CN114-9						

+24V	CN333-3						
N.C.	CN333-2						
XRSOL_TOP	CN333-1						

SOL1 — Upper Inverter Solenoid

+24V	CN334-3						
N.C.	CN334-2						
XRSOL_BTM	CN334-1						

SOL2 — Lower Inverter Solenoid

B6525426

XDFGATE	CN101-1						
GND	CN101-2						
XLAMPGT	CN101-3						
GND	CN101-4						
+5VE	CN101-5						
N.C.	CN101-6						
N.C.	CN101-7						
GND	CN101-8						
N.C.	CN102-1						
RXD	CN102-2						
GND	CN102-3						
TXD	CN102-4						
GND	CN102-5						
ACSMASKGT	CN102-6						
XSETSN	CN102-7						
XAPSSN	CN102-8						
GND	CN102-9						
GND	CN100-1						
N.C.(+5V)	CN100-2						
+24V	CN100-3						
GND	CN100-4						

XDFGATE	CN1 -8						
GND	CN1 -7						
XLAMPGT	CN1 -6						
GND	CN1 -5						
+5VE	CN1 -4						
N.C.(GND)	CN1 -3						
N.C.(24V	CN1 -2						
N.C.(GND)	CN1 -1						
N.C.	CN2 -9						
RXD	CN2 -8						
GND	CN2 -7						
TXD	CN2 -6						
GND	CN2 -5						
ACSMASKGT	CN2 -4						
XSETSN	CN2 -3						
XAPSSN	CN2 -2						
GND	CN2 -1						
GND	CN3-P1						
+5V	CN3-P2						
+24V	CN3-P3						
GND	CN3-P4						

To Mainframe

Pro751EX/651EX ELECTRICAL COMPONENT LAYOUT (1/5)

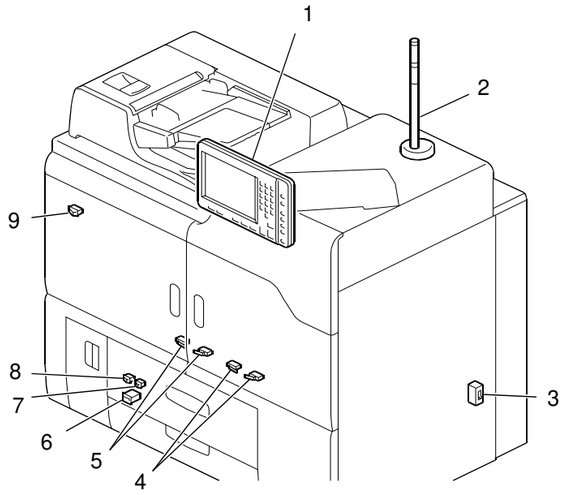

Fig. 1

Index No.	Description	Symbol	P to P	Page
fig 1-1	Operation Panel Unit	-	B12	1/3
fig 1-2	Attention Light	PCB36	A10	1/3
fig 1-3	Circuit Breaker	OT7	H1	1/3
fig 1-4	Interlock Switch 1 and 2: Right	SW14, 15	G7	1/3
fig 1-5	Interlock Switch 1 and 2: Left	SW12, 13	G7	1/3
fig 1-6	Mechanical Counter	OT1	G10	1/3
fig 1-7	ITB Heater Switch	SW16	G3	1/3
fig 1-8	Bank Heater Switch	SW7	G3	1/3
fig 1-9	Main Switch	SW10	H3	1/3

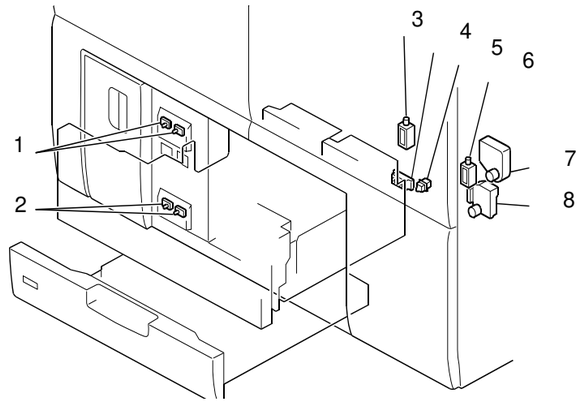

Fig. 4

Index No.	Description	Symbol	P to P	Page
fig 4-1	Bank LED (1/2)	LED6/7	G10	1/3
fig 4-2	Bank LED (3/4)	LED8/9	G10	1/3
fig 4-3	Tray 1 Right Tray Lock Solenoid	SOL19	G9	1/3
fig 4-4	Paper Size Switch	SW1	G10	1/3
fig 4-5	Set Detection Switch	SW2	G9	1/3
fig 4-6	Tray 1 Left Tray Lock Solenoid	SOL18	G9	1/3
fig 4-7	Tray 1 Lift Motor	BM1	F10	1/3
fig 4-8	Tray 2 Lift Motor	BM2	F10	1/3

Fig. 2

Index No.	Description	Symbol	P to P	Page
fig 2-1	Scanner HP Sensor	S38	D9	1/3
fig 2-2	Exposure Lamp	OT4	D10	1/3
fig 2-3	Lamp Regulator	OT5	D9	1/3
fig 2-4	Lamp Regulator Cooling Fan	FAN11	E9	1/3
fig 2-5	Original length Sensor 4	S108	E9	1/.
fig 2-6	SBU	PCB11	D10	1/3
fig 2-7	SIOB	PCB10	D9	1/3
fig 2-8	Scanner Exhaust Fan	FAN10	E9	1/3
fig 2-9	Scanner Motor	STM19	E9	1/3
fig 2-10	Original length Sensor 3	S107	E9	1/3
fig 2-11	Original length Sensor 2	S37	E9	1/3
fig 2-12	Original Width Sensor 0&1	S39	E9	1/3
fig 2-13	Scanner Anti-condensation Heater	HT8	E10	1/3

Fig. 5

Index No.	Description	Symbol	P to P	Page
fig 5-1	Front Side Fence Closed Sensor	S88	H8	1/3
fig 5-2	Front Side Fence Open Sensor	S87	H9	1/3
fig 5-3	Front Side Fence Solenoid	SOL15	H8	1/3
fig 5-4	Rear Side Fence Closed Sensor	S90	H8	1/3
fig 5-5	Rear Side Fence Open Sensor	S89	H8	1/3
fig 5-6	Rear Side Fence Solenoid	SOL16	H9	1/3
fig 5-7	Right Tray Paper Sensor	S86	H9	1/3
fig 5-8	Paper Height Sensor 1	S28	H9	1/3
fig 5-9	Paper Height Sensor 2	S29	H9	1/3
fig 5-10	Paper Height Sensor 3	S31	H9	1/3
fig 5-11	Paper Height Sensor 4	S32	H9	1/3
fig 5-12	Lower Limit Sensor	S91	H9	1/3
fig 5-13	Rear Fence Return Sensor	S94	H7	1/3
fig 5-14	Rear Fence Drive Motor	BM8	H8	1/3
fig 5-15	Left Tray Paper Sensor	S92	H7	1/3
fig 5-16	Rear Fence HP Sensor	S93	H7	1/3

Fig. 3

Index No.	Description	Symbol	P to P	Page
fig 3-1	Laser Synchronization Detection Board (M-S)	PCB19	A8	1/3
	Laser Synchronization Detection Board (K-S)	PCB21	A10	1/3
fig 3-2	Laser Synchronization Detection Board (Y-E)	PCB22	A8	1/3
	Laser Synchronization Detection Board (C-E)	PCB24	A10	1/3
fig 3-3	Skew Motor (Y)	STM13	A7	1/3
	Skew Motor (C)	STM12	A9	1/3
fig 3-4	Polygon Drive Board (YM/CK)	-	-	-
fig 3-5	Polygon Motor (YM)	BLM18	A7	1/3
	Polygon Motor (CK)	BLM20	A9	1/3
fig 3-6	LDB (Y)	PCB14	B8	1/3
	LDB (C)	PCB16	B9	1/3
fig 3-7	Laser Synchronization Detection Board (Y-S)	PCB18	A8	1/3
	Laser Synchronization Detection Board (C-S)	PCB20	A9	1/3
fig 3-8	Laser Synchronization Detection Board (M-E)	PCB23	A8	1/3
	Laser Synchronization Detection Board (K-E)	PCB25	A10	1/3
fig 3-9	LDB (M)	PCB15	B8	1/3
	LDB (K)	PCB17	B10	1/3
fig 3-10	Laser Thermistor (YM)	S34	A8	1/3
	Laser Thermistor (CK)	S14	A9	1/3
fig 3-11	Skew Motor (M)	STM11	A8	1/3
	Skew Motor (K)	STM4	A9	1/3

Fig. 6

Index No.	Description	Symbol	P to P	Page
fig 6-1	1st/2nd Paper Feed Sensor	S18/19	G9	1/3
fig 6-2	1st/2nd Separation Roller Solenoid	SOL13/2	G9	1/3
fig 6-3	1st/2nd Paper End Sensor	S25/26	G8-9	1/3
fig 6-4	1st/2nd Pickup Roller Lift Sensor	S73/27	G8-9	1/3
fig 6-5	1st/2nd Pickup Solenoid	SOL14/1	G8-9	1/3
fig 6-6	Tray 1 Paper Feed Motor	STM5	G11	1/3
fig 6-7	Tray 1 Grip Motor	STM7	G11	1/3
fig 6-8	Tray 2 Paper Feed Motor	STM8	G11	1/3
fig 6-9	Tray 2 Grip Motor	STM6	G11	1/3
fig 6-10	Bank Heater: Lower	HT2	G3	1/3
fig 6-11	Bank Heater: Upper	HT1	G3	1/3

Pro751EX/651EX ELECTRICAL COMPONENT LAYOUT (2/5)

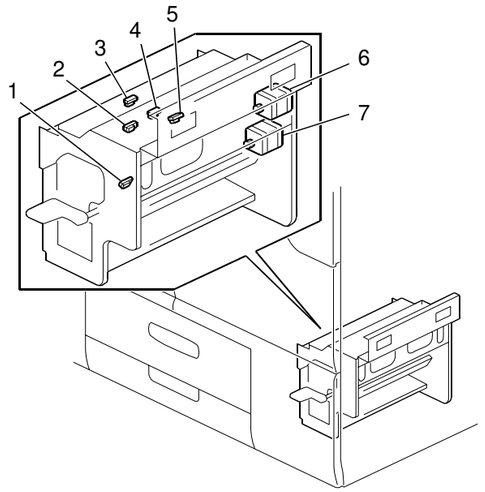

Fig. 7

Index No.	Description	Symbol	P to P	Page
fig 7-1	2nd Transport Sensor	S21	G8	1/3
fig 7-2	Vertical Transport Sensor	S22	G8	1/3
fig 7-3	1st Transport Sensor	S20	G8	1/3
fig 7-4	Main Relay Sensor 1	S24	G8	1/3
fig 7-5	Bank Exit Sensor	S23	G8	1/3
fig 7-6	Bank Exit Motor	STM10	G11	1/3
fig 7-7	Vertical Transport Motor	STM9	G11	1/3

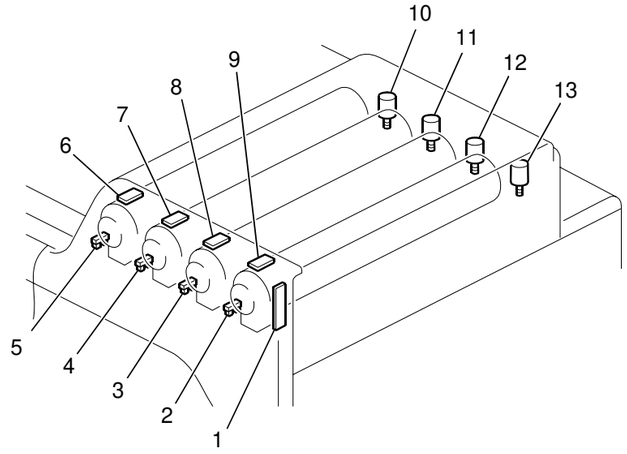

Fig. 10

Index	Description	Symbol	P to P	Page
fig 10-1	RFID CPU	PCB26	C6	1/3
fig 10-2	Toner Bottle Detection Sensor (K)	S79	D6	1/3
fig 10-3	Toner Bottle Detection Sensor (C)	S80	D6	1/3
fig 10-4	Toner Bottle Detection Sensor (M)	S81	D6	1/3
fig 10-5	Toner Bottle Detection Sensor (Y)	S82	D5	1/3
fig 10-6	RFID (Y)	PCB27	C6	1/3
fig 10-7	RFID (M)	PCB28	C6	1/3
fig 10-8	RFID (C)	PCB29	C6	1/3
fig 10-9	RFID (K)	PCB30	C7	1/3
fig 10-10	Toner Bottle Motor (Y)	BM6	C4	1/3
fig 10-11	Toner Bottle Motor (M)	BM5	C4	1/3
fig 10-12	Toner Bottle Motor (C)	BM4	C4	1/3
fig 10-13	Toner Bottle Motor (K)	BM3	C4	1/3

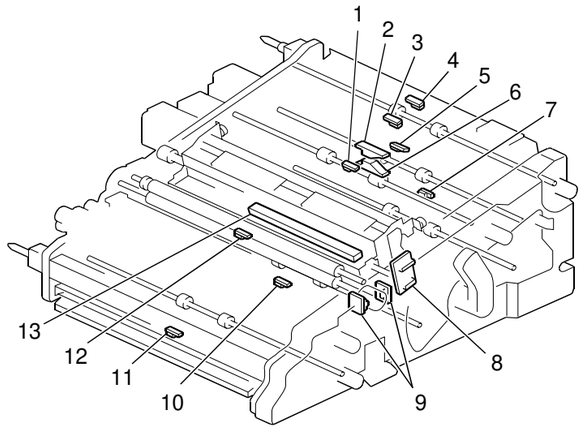

Fig. 8

Index No.	Description	Symbol	P to P	Page
fig 8-1	Registration Timing Sensor	S45	G8	2/3
fig 8-2	Double-feed Sensor 2: Receptor	S99	G7	2/3
fig 8-3	LCT Relay Sensor 2	S46	G10	2/3
fig 8-4	LCT Relay Sensor 1	S47	G10	2/3
fig 8-5	Main Relay Sensor 3	S44	G9	2/3
fig 8-6	Double-feed Sensor 1: Emitter	LED5	G7	2/3
fig 8-7	Main Relay Sensor 2	S30	G7	2/3
fig 8-8	CRB (CIS Relay Board)	PCB13	G8	2/3
fig 8-9	Transfer Timing Roller Rotation Sensor 1/2	S17/74	G8	2/3
fig 8-10	Duplex Transport Sensor 5	S10	G9	2/3
fig 8-11	Duplex Transport Sensor 4	S9	G9	2/3
fig 8-12	Transfer Timing Sensor	S33	G9	2/3
fig 8-13	CIS Sensor	S40	G8	2/3

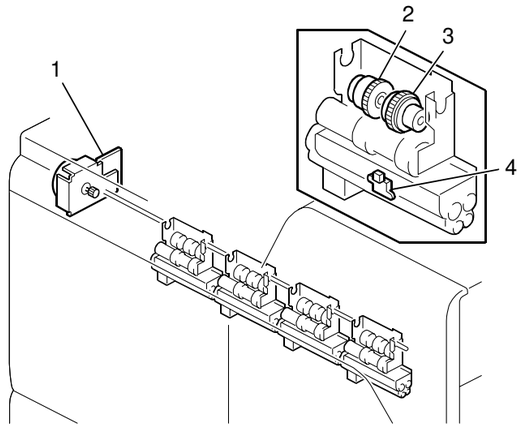

Fig. 11

Index	Description	Symbol	P to P	Page
fig 11-1	Toner Supply Motor	BLM21	D4	1/3
fig 11-2	Toner Supply Clutch (Y)	CL5	C5	1/3
	Toner Supply Clutch (M)	CL4	C5	1/3
	Toner Supply Clutch (C)	CL3	C5	1/3
	Toner Supply Clutch (K)	CL2	C5	1/3
fig 11-3	Toner Pump Clutch (Y)	CL8	C5	1/3
	Toner Pump Clutch (M)	CL6	C5	1/3
	Toner Pump Clutch (C)	CL7	C5	1/3
	Toner Pump Clutch (K)	CL1	C5	1/3
fig 11-4	Toner End Sensor (Y)	S65	C4	1/3
	Toner End Sensor (M)	S64	C5	1/3
	Toner End Sensor (C)	S63	C5	1/3
	Toner End Sensor (K)	S5	C5	1/3

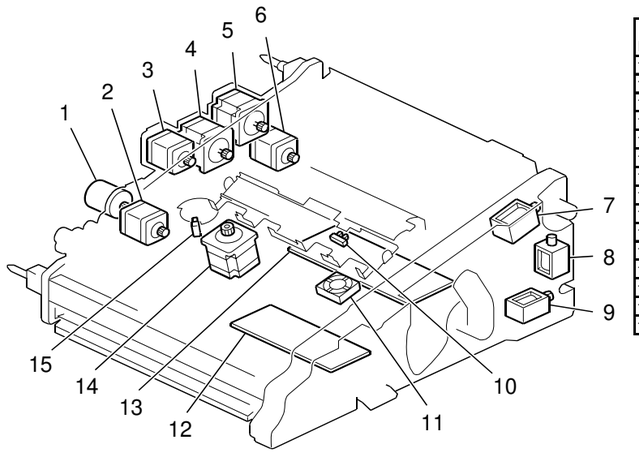

Fig. 9

Index No.	Description	Symbol	P to P	Page
fig 9-1	Transfer Timing Motor	BLM19	G10	2/3
fig 9-2	Duplex Transport Motor 2	STM3	G11	2/3
fig 9-3	Shift Roller Motor	STM16	G11	2/3
fig 9-4	Registration Gate Motor	STM17	G11	2/3
fig 9-5	Registration Timing Motor	STM15	G10	2/3
fig 9-6	Registration Entrance Motor	STM14	G10	2/3
fig 9-7	LCT Relay Roller Solenoid	SOL5	G6	2/3
fig 9-8	Main Relay Roller Solenoid 1	SOL3	G7	2/3
fig 9-9	Main Relay Roller Solenoid 2	SOL4	G7	2/3
fig 9-10	Gate Retract HP Sensor	S36	G8	2/3
fig 9-11	CIS Cleaning Fan	FAN12	G7	2/3
fig 9-12	Separation Power Pack	HVP2	G11	2/3
fig 9-13	DRB (Drive Board)	PCB6	E8	2/3
fig 9-14	Shift Unit Motor	STM18	G11	2/3
fig 9-15	Shift Unit HP Sensor	S35	G9	2/3

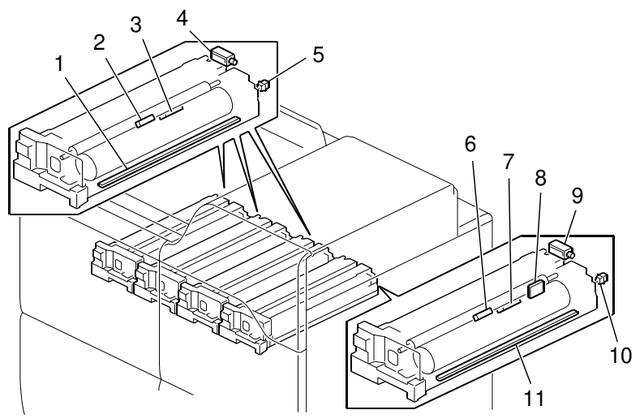

Fig. 12

Index	Description	Symbol	P to P	Page
fig 12-1	PCL (Y)	LED1	A3	1/3
	PCL (M)	LED2	A3	1/3
	PCL (C)	LED3	A4	1/3
fig 12-2	Potential Sensor Probe (Y)	S109	A6	1/3
	Potential Sensor Probe (M)	S110	A7	1/3
	Potential Sensor Probe (C)	S111	A7	1/3
fig 12-3	TD Sensor (Y)	S71	A2	1/3
	TD Sensor (M)	S69	A3	1/3
	TD Sensor (C)	S70	A4	1/3
fig 12-4	Charge Roller Cleaning Roller Solenoid (Y)	SOL11	A2	1/3
	Charge Roller Cleaning Roller Solenoid (M)	SOL10	A3	1/3
	Charge Roller Cleaning Roller Solenoid (C)	SOL9	A4	1/3
fig 12-5	Cleaning Unit Set Switch (Y)	SW6	A3	1/3
	Cleaning Unit Set Switch (M)	SW5	A4	1/3
	Cleaning Unit Set Switch (C)	SW4	A4	1/3
fig 12-6	Potential Sensor Probe (K)	S112	A7	1/3
fig 12-7	TD Sensor (K)	S4	A5	1/3
fig 12-8	PCDU Temperature/Humidity Senor	S58	A7	1/3
fig 12-9	Charge Roller Cleaning Roller Solenoid (K)	SOL6	A4	1/3
fig 12-10	Cleaning Unit Set Switch (K)	SW3	A5	1/3
fig 12-11	PCL (K)	LED4	A5	1/3

Pro751EX/651EX ELECTRICAL COMPONENT LAYOUT (3/5)

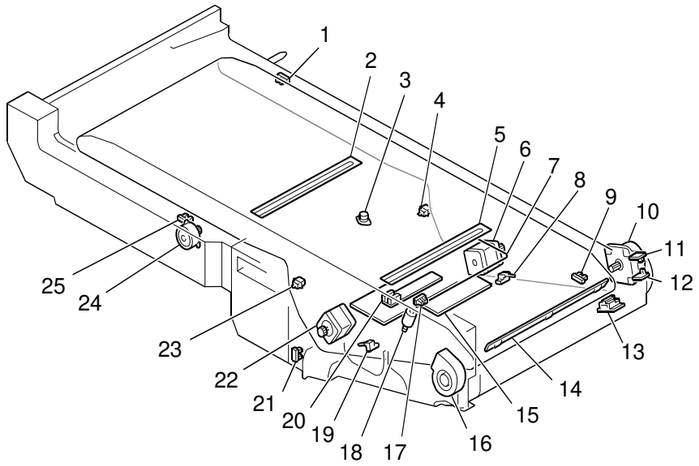

Fig. 13

Index	Description	Symbol	P to P	Page
fig 13-1	Belt Centering Roller HP Sensor	S77	C8	2/3
fig 13-2	Anti-condensation Heater (Left)	HT6	B8	2/3
fig 13-3	ITB Unit Thermostat	TS4	B8	2/3
fig 13-4	Cleaning Unit Set Switch	SW8	C8	2/3
fig 13-5	Anti-condensation Heater (Right)	HT7	B8	2/3
fig 13-6	Belt Centering Motor	STM25	A7	2/3
fig 13-7	ITB Unit Transfer Power Pack	HVP1	B10	2/3
fig 13-8	Rear Overrun Sensor	S78	D7	2/3
fig 13-9	2nd Lift Motor Sensor 1 (K)	S86	B8	2/3
fig 13-10	Transfer Belt Drive Motor	BLM4	B7	2/3
fig 13-11	Transfer Belt Drive Motor Encoder 1	S96	B7	2/3
fig 13-12	Transfer Belt Drive Motor Encoder 2	S97	B7	2/3
fig 13-13	Belt Centering Sensor	S95	B7	2/3
fig 13-14	ID Sensor	S3	D8	2/3
fig 13-15	TDRB (Transfer Drive Relay Board)	PCB7	C7	2/3
fig 13-16	ID/MUSIC Sensor Fan	FAN28	B7	2/3
fig 13-17	2nd Lift Motor Sensor 2 (K)	S84	B8	2/3
fig 13-18	2nd Lift Motor (K)	BM7	B7	2/3
fig 13-19	Front Overrun Sensor	S76	D7	2/3
fig 13-20	Transfer Belt Speed Sensor	S85	C8	2/3
fig 13-21	PTR Separation Sensor	S59	D9	2/3
fig 13-22	PTR Separation Motor	STM24	A7	2/3
fig 13-23	Cleaning Unit Cover Set Switch	SW9	C8	2/3
fig 13-24	1st Lift Motor (YMC)	STM23	D8	2/3
fig 13-25	1st Lift Motor Sensor (YMC)	S15	D8	2/3

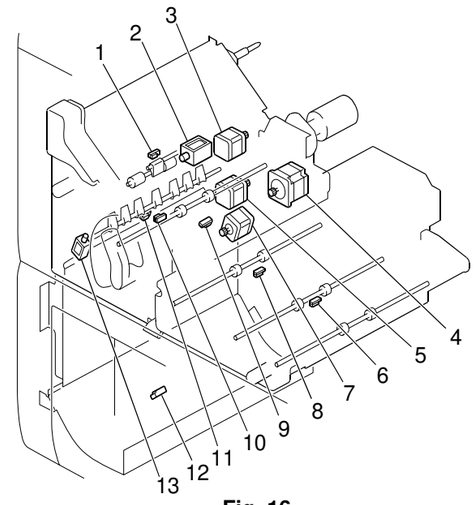

Fig. 16

Index	Description	Symbol	P to P	Page
fig 16-1	Exit Relay Sensor	S50	F4	2/3
fig 16-2	Invert/Exit Solenoid	SOL7	F4	2/3
fig 16-3	Exit Relay Motor	STM20	F5	2/3
fig 16-4	Duplex Transport Motor 1	STM2	F4	2/3
fig 16-5	Invert/Exit Motor	STM21	F3	2/3
fig 16-6	Duplex Transport Sensor 3	S8	F2	2/3
fig 16-7	Invert/Duplex Motor	STM1	E3	1/3
fig 16-8	Duplex Transport Sensor 2	S7	F2	2/3
fig 16-9	Duplex Transport Sensor 1	S6	F2	2/3
fig 16-10	Duplex Inverter Sensor	S1	E4	2/3
fig 16-11	Purge Relay Sensor	S11	F4	2/3
fig 16-12	Purged Paper Sensor	S12	G10	1/3
fig 16-13	Invert JG SOL	SOL8	F4	2/3

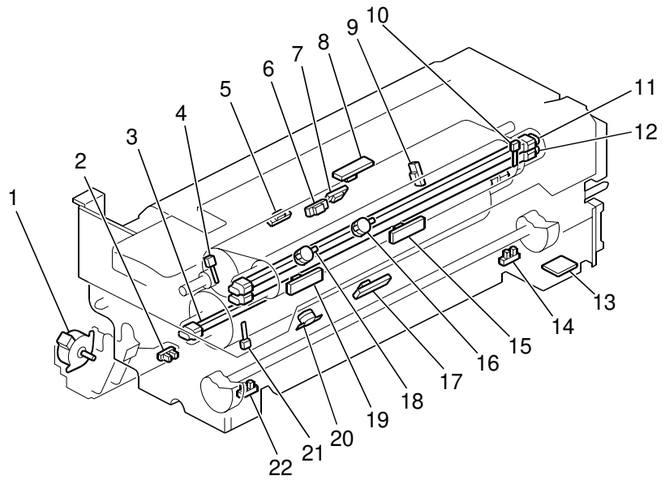

Fig. 14

Index	Description	Symbol	P to P	Page
fig 14-1	Web Motor	STM26	F3	2/3
fig 14-2	Web End Sensor	S55	F3	2/3
fig 14-3	Fusing Lamp: Pressure Roller: Center/End	HT9/5	B3, C1	2/3
fig 14-4	Hot Roller Thermistor	S102	B1	2/3
fig 14-5	Fusing Exit Sensor	S52	B4	2/3
fig 14-6	Fusing Belt Paper Sensor	S53	B4	2/3
fig 14-7	Pressure Roller Paper Sensor	S54	B4	2/3
fig 14-8	Hot Roller NC Sensor	S98	B2	2/3
fig 14-9	Fusing Cleaning Unit Set Sensor	S105	F1	1/3
fig 14-10	Heating Roller Thermistor (Rear)	S42	B2	2/3
fig 14-11	Fusing Lamps: Heating Roller B: Center/End	HT11/4	B2, C1	2/3
fig 14-12	Fusing Lamps: Heating Roller A: Center/End	HT10/3	B2, C1	2/3
fig 14-13	Fusing Unit ID Board	PCB2	B4	2/3
fig 14-14	Pressure Roller Cam Position Sensor B	S51	B4	2/3
fig 14-15	Heating Roller NC Sensor (Center)	S62	B1	2/3
fig 14-16	Heating Roller Center Thermostat	TS1	C2	2/3
fig 14-17	Pressure Roller NC Sensor	S57	B3	2/3
fig 14-18	Heating Roller End Thermostat	TS2	B2	2/3
fig 14-19	Heating Roller NC Sensor (End)	S56	B1	2/3
fig 14-20	Pressure Roller Thermostats	TS3	B3	2/3
fig 14-21	Pressure Roller Thermistor	S43	B3	2/3
fig 14-22	Pressure Roller Cam Position Sensor A	S61	B4	2/3

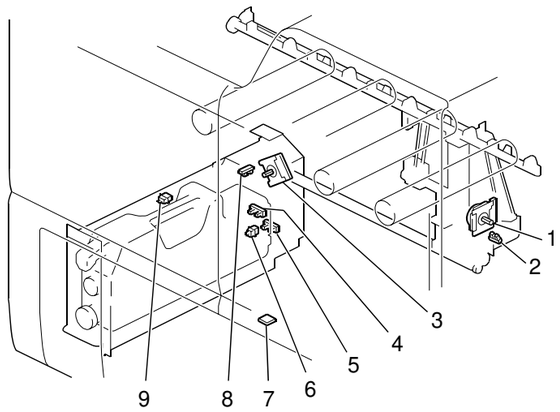

Fig. 17

Index	Description	Symbol	P to P	Page
fig 17-1	Used Toner Transport Motor	BLM7	E2	1/3
fig 17-2	Used Toner Transport Motor Sensor	S100	F1	1/3
fig 17-3	Used Toner Bottle Motor	BLM6	F10	1/3
fig 17-4	Used Toner Bottle Full Sensor	S83	G11	1/3
fig 17-5	Used Toner Bottle Near-Full Sensor	S67	G11	1/3
fig 17-6	Used Toner Bottle Set Sensor	S66	G11	1/3
fig 17-7	ITB Temperature/Humidity Sensor	S13	G9	1/3
fig 17-8	Used Toner Bottle Motor Sensor	S101	G11	1/3
fig 17-9	Used Toner Bottle Door Sensor	SW11	G11	1/3

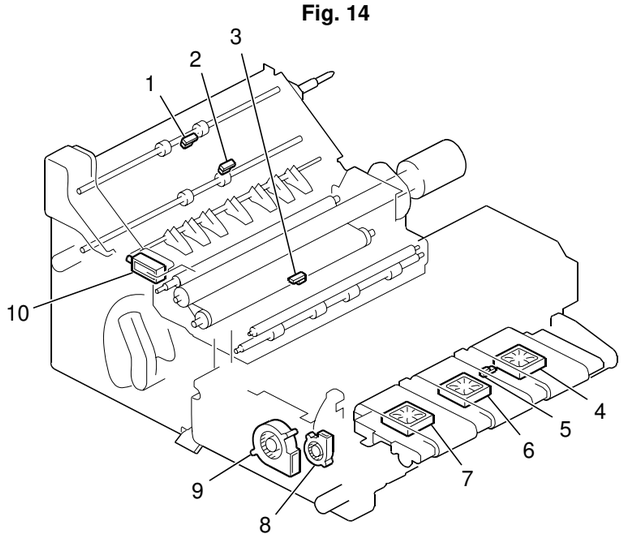

Fig. 15

Index	Description	Symbol	P to P	Page
fig 15-1	Exit Sensor	S49	F4	2/3
fig 15-2	Exit JG Sensor	S48	F4	2/3
fig 15-3	Exit Unit Entrance Sensor	S75	F2	2/3
fig 15-4	PTB Fan (Rear)	FAN25	F3	2/3
fig 15-5	PTB Sensor	S60	F3	2/3
fig 15-6	PTB Fan (Center)	FAN26	F2	2/3
fig 15-7	PTB Fan (Front)	FAN27	F2	2/3
fig 15-8	Belt Cooling Fan	FAN36	E3	2/3
fig 15-9	Pressure Roller Cooling Fan	FAN1	E2	2/3
fig 15-10	Exit JG Solenoid	SOL12	E1	2/3

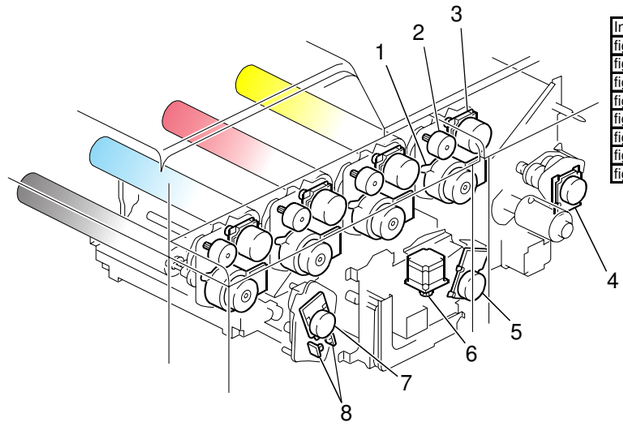

Fig. 18

Index	Description	Symbol	P to P	Page
fig 18-1	Drum Motor (YMCK)	BLM14, 13, 12, 1	G3-4	1/3
fig 18-2	Drum Cleaning Motor (YMCK)	BLM11, 10, 9, 3	G4-5	1/3
fig 18-3	Development Motor (YMCK)	BLM17, 16, 15, 2	G4-5	1/3
fig 18-4	Exit Motor	BLM22	E2	1/3
fig 18-5	Fusing Motor	BLM8	F4	1/3
fig 18-6	Pressure Roller Lift Motor	STM22	F4	1/3
fig 18-7	PTR/ITB Cleaning Motor	BLM5	F4	1/3
fig 18-8	Transfer Timing Encoder Sensor 1, 2	S16/S72	F4	1/3

Pro751EX/651EX ELECTRICAL COMPONENT LAYOUT (4/5)

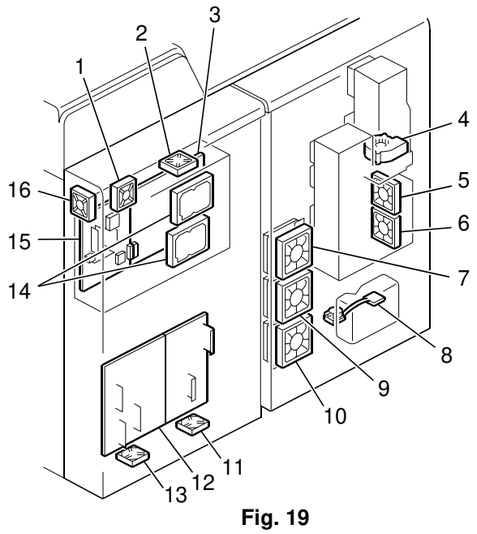

Fig. 19

Index No.	Description	Symbol	P to P	Page
fig 19-1	Controller Box Fan 1	FAN8	C11	1/3
fig 19-2	Controller Box Fan 2	FAN9	C11	1/3
fig 19-3	IPU	PCB9	C9	1/3
fig 19-4	Main Unit Ozone Exhaust Fan	FAN15	C2	1/3
fig 19-5	Cooling Box Emission Exhaust Fan	FAN49	C2	1/3
fig 19-6	Main Unit Exhaust Fan	FAN16	C2	1/3
fig 19-7	Development Unit Cooling Fan 1	FAN3	C1	1/3
fig 19-8	Development Unit Coolant Pump	OT2	C2	1/3
fig 19-9	Development Unit Cooling Fan 2	FAN4	C1	1/3
fig 19-10	Development Unit Cooling Fan 3	FAN5	C1	1/3
fig 19-11	Controller Box Intake Fan 2	FAN7	G5	1/3
fig 19-12	PSU 1	PSU1	H6	1/3
fig 19-13	Controller Box Intake Fan 1	FAN6	G5	1/3
fig 19-14	HDD (1, 2)	OT11/12	E12	1/3
fig 19-15	GW Controller	PCB8	C11	1/3
fig 19-16	Cooling Box Drive Exhaust Fan	FAN47	E7	1/3

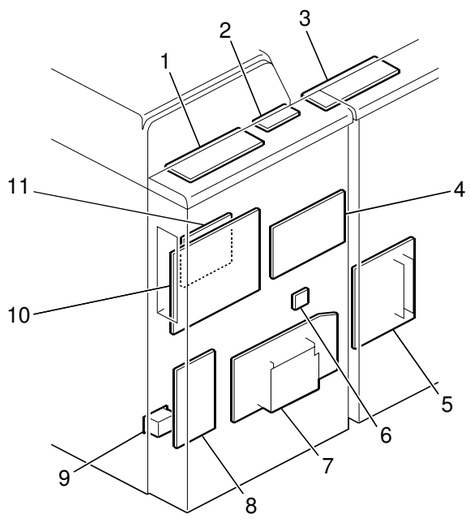

Fig. 20

Index	Description	Symbol	P to P	Page
fig 20-1	CB Power Pack (CK)	HVP4	B6	1/3
fig 20-2	Potential Sensor Board	S2	B6	1/3
fig 20-3	CB Power Pack (YM)	HVP3	B5	1/3
fig 20-4	TDCU	PCB5	F4	1/3
fig 20-5	AC Drive Board	PCB32	G1	1/3
fig 20-6	AC Relay Board	PCB12	F7	1/3
fig 20-7	PSU 2	PSU2	H7	1/3
fig 20-8	Relay Board	PCB3	F9	1/3
fig 20-9	Noise Filter	OT6	H2	1/3
fig 20-10	IOB	PCB4	E2	1/3
fig 20-11	BCU	PCB1	D7	1/3

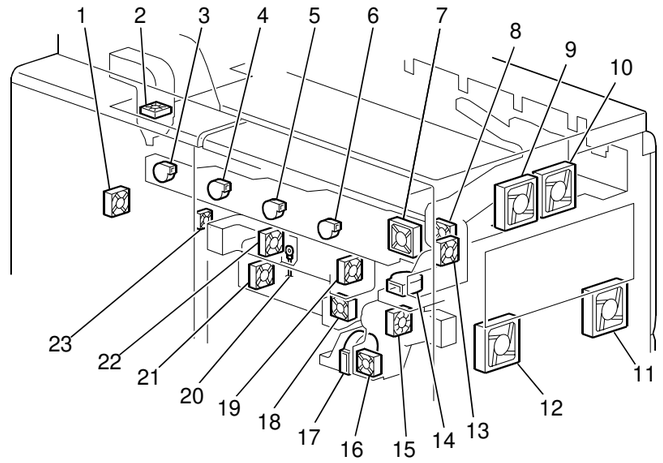

Fig. 21

Index	Description	Symbol	P to P	Page
fig 21-1	ITB Intake Fan	FAN38	E7	1/3
fig 21-2	Used Toner Intake Fan	FAN37	E7	1/3
fig 21-3	Ozone Exhaust Fan (K)	FAN23	D3	1/3
fig 21-4	Ozone Exhaust Fan (C)	FAN18	D3	1/3
fig 21-5	Ozone Exhaust Fan (M)	FAN22	D3	1/3
fig 21-6	Ozone Exhaust Fan (Y)	FAN17	D3	1/3
fig 21-7	Ozone Collection Fan	FAN14	D3	1/3
fig 21-8	Main Unit Exhaust Fan	FAN16	C2	1/3
fig 21-9	Exit Paper Exhaust Fan: Rear	FAN52	E3	1/3
fig 21-10	Exit Paper Exhaust Fan: Front	FAN43	E3	1/3
fig 21-11	Duplex Exhaust Fan: Front	FAN51	E3	1/3
fig 21-12	Duplex Exhaust Fan: Rear	FAN42	E3	1/3
fig 21-13	Drive Exhaust Fan	FAN47	D4	1/3
fig 21-14	Fusing Exit Exhaust Fan	FAN20	D3	1/3
fig 21-15	Paper Cooling Intake Fan	FAN34	D3	1/3
fig 21-16	Paper Cooling Exhaust Fan	FAN35	D2	1/3
fig 21-17	Transport/Fusing Exhaust Fan	FAN21	E3	1/3
fig 21-18	Used Toner Cooling Fan	FAN40	D2	1/3
fig 21-19	Heat Sink Cooling Fan (Exhaust)	FAN2	D2	1/3
fig 21-20	Temperature/Humidity Sensor	S41	E2	1/3
fig 21-21	ITB Cleaning Exhaust Fan	FAN41	E2	1/3
fig 21-22	Heat Sink Cooling Fan (Suction)	FAN13	D2	1/3

Pro751EX/651EX ELECTRICAL COMPONENT LAYOUT (5/5)

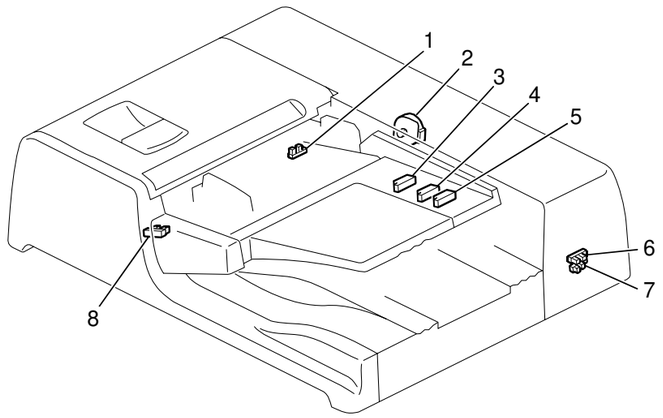

Fig. 22

Index	Description	Symbol	P to P	Page
fig 22-1	Original Set Sensor	S6	B2	3/3
fig 22-2	Bottom Plate Motor	M7	D8	3/3
fig 22-3	Original Length 1 Sensor	S11	D2	3/3
fig 22-4	Original Length 2 Sensor	S12	D2	3/3
fig 22-5	Original Length 3 Sensor	S13	E2	3/3
fig 22-6	APS Start Sensor	S22	E3	3/3
fig 22-7	DF Position Sensor	S21	E3	3/3
fig 22-8	Bottom Plate HP Sensor	S7	C2	3/3

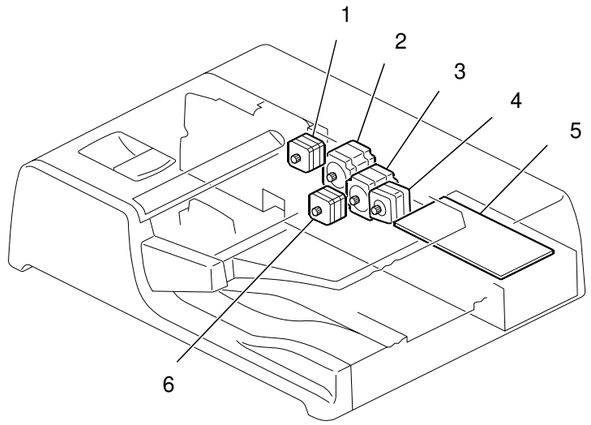

Fig. 25

Index	Description	Symbol	P to P	Page
fig 25-1	Exit Motor	M3	C8	3/3
fig 25-2	Feed Motor	M1	A8	3/3
fig 25-3	Transport Motor	M2	B8	3/3
fig 25-4	Upper Inverter Motor	M4	B8	3/3
fig 25-5	Main Board	PCB1	A5	3/3
fig 25-6	Lower Inverter Motor	M5	C8	3/3

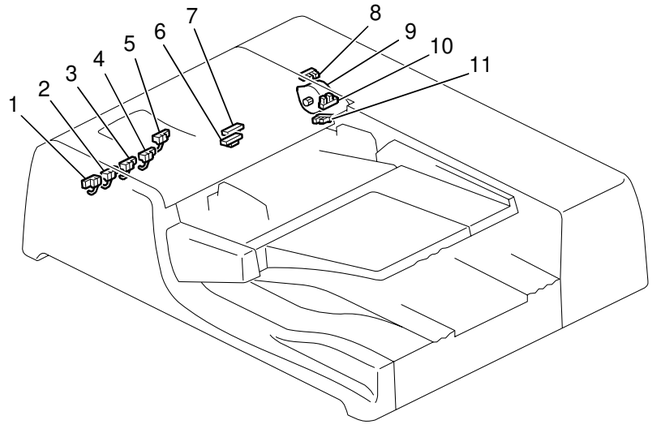

Fig. 23

Index	Description	Symbol	P to P	Page
fig 23-1	Original Width 5 Sensor	S5	B2	3/3
fig 23-2	Original Width 4 Sensor	S4	B2	3/3
fig 23-3	Original Width 3 Sensor	S3	B2	3/3
fig 23-4	Original Width 2 Sensor	S2	A2	3/3
fig 23-5	Original Width 1 Sensor	S1	A2	3/3
fig 23-6	Seperation Sensor	S16	E2	3/3
fig 23-7	Skew Correction Sensor	S15	E2	3/3
fig 23-8	Pick-up Roller HP Sensor	S19	B3	3/3
fig 23-9	Pick-up Motor	M6	D8	3/3
fig 23-10	Feed Cover Sensor	S8	C2	3/3
fig 23-11	Bottom Plate Position Sensor	S9	C2	3/3

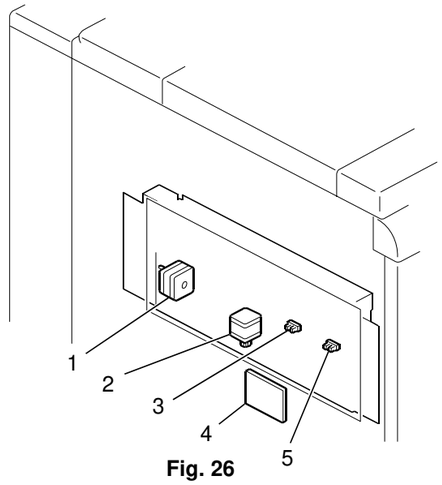

Fig. 26

Index No.	Description	Symbol	P to P	Page
fig 26-1	Decurler Paper Transport Motor	STM27	C11	2/3
fig 26-2	Decurl Motor	STM28	C11	2/3
fig 26-3	Decurler HP Sensor	S03	C11	2/3
fig 26-4	Decurler Limit Sensor	S04	C11	2/3
fig 26-5	DDRB	PCB35	B11	2/3

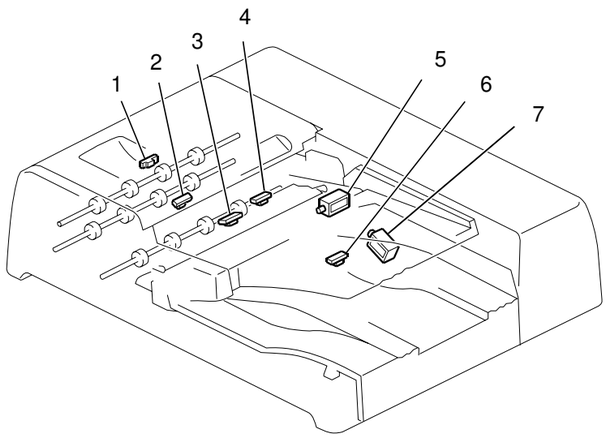

Fig. 24

Index	Description	Symbol	P to P	Page
fig 24-1	Interval Sensor	S14	E2	3/3
fig 24-2	Registration Sensor	S18	F2	3/3
fig 24-3	Exit Sensor	S17	F2	3/3
fig 24-4	Upper Inverter Sensor	S10	D2	3/3
fig 24-5	Lower Inverter Solenoid	SOL2	E8	3/3
fig 24-6	Lower Inverter Sensor	S20	D3	3/3
fig 24-7	Upper Inverter Sensor	SOL1	D8	3/3

Harness No.	P/N		CN (FROM)			Signal Information				Relay Harness P/N	CN (To)		
			No.	From	Pin No.	Signal	Direction	L	H		No.	To	Pin No.
1	D4345835		CN141	MAIN	1	GND2	-	-	-	D4345770	CN367	-	7
					2	Proof Tray Exit Sensor	←	No paper	Paper				6
					3	5V	-	-	-				5
					4	GND2	-	-	-				3
					5	Proof Tray Full Sensor	←	No paper	Paper				2
					6	5V	-	-	-				1
					7	N.C	-	-	-				-
					8	GND2	-	-	-	-	CN368	Entrance Sensor	3
					9	Entrance Sensor	←	No paper	Paper				2
					10	5V	-	-	-				1
					11	GND2	-	-	-	-	CN369	Pre-stack Roller HP Sensor	3
					12	Pre-stack Roller HP Sensor	←	No paper	Paper				2
					13	5V	-	-	-				1
2	D4345770		CN367	MAIN	1	GND2	-	-	-	-	CN365	Proof Tray Exit Sensor	3
					2	Proof Tray Exit Sensor	←	No paper	Paper				2
					3	5V	-	-	-				1
					4	N.C	-	-	-		-	-	-
					5	GND2	-	-	-		CN366	Proof Tray Full Sensor	3
					6	Proof Tray Full Sensor	←	No paper	Paper				2
					7	5V	-	-	-				1
3	D4345775		CN142	MAIN	1	GND2	-	-	-	D4345772	CN372	-	6
					2	Shift Tray Exit Sensor (Long)	←	No paper	Paper				5
					3	5V	-	-	-				4
					4	GND2	-	-	-				3
					5	Shift Tray Exit Sensor (Short)	←	No paper	Paper				2
					6	5V	-	-	-				1
					7	N.C	-	-	-	-	-	-	-
					8	GND2	-	-	-	D4345773	CN374	-	3
					9	Exit Guide HP Sensor	←	No HP	HP				2
					10	5V	-	-	-				1
					11	N.C	-	-	-	-	-	-	-
					12	GND2	-	-	-	D4345834	CN378	-	9
					13	Paper Height Sensor (Shift)	←	No height	Height				8
					14	5V	-	-	-				7
					15	GND2	-	-	-				6
					16	Paper Height Sensor (Staple)	←	No height	Height				5
					17	5V	-	-	-				4
					18	GND2	-	-	-				3
					19	Paper Height Sensor (Z-Fold)	←	No height	Height				2
					20	5V	-	-	-				1
4	D4345772		CN372	D4345775	1	GND2	-	-	-	-	CN370	Shift Tray Exit Sensor	3
					2	Shift Tray Exit Sensor (Long)	←	No paper	Paper				2
					3	5V	-	-	-				1
					4	GND2	-	-	-	-	CN371	Shift Tray Exit Sensor	3
					5	Shift Tray Exit Sensor (Short)	←	No paper	Paper				2
					6	5V	-	-	-				1
5	D4345773		CN374	D4345775	1	GND2	-	-	-	-	CN373	Exit Guide HP Sensor	3
					2	Exit Guide HP Sensor	←	No HP	HP				2
					3	5V	-	-	-				1
6	D4345834		CN378	D4345775	1	GND2	-	-	-	-	CN375	Paper Height Sensor	3
					2	Paper Height Sensor (Shift)	←	No height	Height				2
					3	5V	-	-	-				1
					4	GND2	-	-	-	-	CN376	Paper Height Sensor	3
					5	Paper Height Sensor (Staple)	←	No height	Height				2
					6	5V	-	-	-				1
					7	GND2	-	-	-	-	CN377	Paper Height Sensor (Z-	3
					8	Paper Height Sensor (Z-Fold)	←	No height	Height				2
					9	5V	-	-	-				1
7	D4345777		CN143	MAIN	1	GND2	-	-	-	-	CN379	Proof Tray JG HP Sensor	3
					2	Proof Tray JG HP Sensor	←	No H.P	H.P				2
					3	5V	-	-	-				1
					4	GND2	-	-	-	-	CN380	Stapler JG HP Sensor	3
					5	Stapler JG HP Sensor	←	No H.P	H.P				2
					6	5V	-	-	-				1
					7	N.C	-	-	-	-	-	-	-
					8	GND2	-	-	-	D4345776	CN382	-	3
					9	Pre-Stack Paper Sensor	←	No paper	Paper				2
					10	5V	-	-	-				1
8	D4345776		CN382	MAIN	1	GND2	-	-	-	-	CN381	Pre-Stack Paper Sensor	3
					2	Pre-Stack Paper Sensor	←	No paper	Paper				2
					3	5V	-	-	-				1
9	D4345779		CN144	MAIN	1	5V	-	-	-	D4345778	CN384	-	4
					2	STOP_LED	→	OFF	Lit				3
					3	STOP_SW	←	OFF	ON				2
					4	GND2	-	-	-				1
10	D4345778		CN384	D4345779	1	5V	-	-	-	-	CN383	Emergency Shift Tray Stop Switch	4
					2	STOP_LED	→	OFF	Lit				3
					3	STOP_SW	←	OFF	ON				2
					4	GND2	-	-	-				1
11	D4345780		CN149	MAIN	1	GND2	-	-	-	-	CN385	Staple Trimmings Hopper	3
					2	Staple Hopper Full Sensor	←		Full				2
					3	5V	-	-	-				1
					4	GND2	-	-	-	-	CN386	Staple Trimmings Hopper	3
					5	Staple Hopper Set Sensor	←	Not set	Set				2
					6	5V	-	-	-				1
12	D4345852		CN103	MAIN	1	N.C	-	-	-	-	CN302	Lattice Connector	-
					2	24V_PPC	-	-	-				8
					3	24V_PPC	-	-	-				7
					4	24V_PPC	-	-	-				6
					6	24V_PPC	-	-	-				5
					6	GND_PPC	-	-	-				4
					7	GND_PPC	-	-	-				3
					8	GND_PPC	-	-	-				2
					9	GND_PPC	-	-	-				1
			CN104	MAIN	1	GNDIO	-	-	-	-	CN301	Lattice Connector	-
					2	GNDIO	-	-	-				8
					3	5VIF	-	-	-				7
					4	5VIF	-	-	-				6
					5	RXD（to FIN)	←	-	-				5
					6	N.C	-	-	-				4
					7	TXD(from FIN）	→	-	-				3
					8	N.C	-	-	-				2

Harness No.	P/N		CN (FROM)			Signal Information				Relay Harness P/N	CN (To)		
			No.	From	Pin No.	Signal	Direction	L	H		No.	To	Pin No.
13	D4345768		CN132	MAIN	1	24V	-	-	-	-	CN352	Drag Drive Motor	7
					2	24V	-	-	-				6
					3	N.C	-	-	-				5
					4	Drag Drive Motor A	→	OFF	ON				4
					5	Drag Drive Motor AB	→	OFF	ON				3
					6	Drag Drive Motor B	→	OFF	ON				2
					7	Drag Drive Motor BB	→	OFF	ON				1
					8	N.C	-	-	-		-	-	-
					9	N.C	-	-	-		-	-	-
					10	24V	-	-	-		CN353	Drag Roller Motor	7
					11	24V	-	-	-				6
					12	N･C	-	-	-				5
					13	Drag Roller Motor A	→	OFF	ON				4
					14	Drag Roller Motor AB	→	OFF	ON				3
					15	Drag Roller Motor B	→	OFF	ON				2
					16	Drag Roller Motor BB	→	OFF	ON				1
					17	N.C	-	-	-		-	-	-
			CN133	MAIN	1	24V	-	-	-	D4345767	CN354	-	7
					2	24V	-	-	-				6
					3	N.C	-	-	-				5
					4	Shift Motor A	→	OFF	ON				4
					5	Shift Motor AB	→	OFF	ON				3
					6	Shift Motor B	→	OFF	ON				2
					7	Shift Motor BB	→	OFF	ON				1
					8	N.C	-	-	-		-	-	-
14	D4345767		CN354	D434768	1	24V	-	-	-	-	CN357	Shift Motor	7
					2	24V	-	-	-				6
					3	N.C	-	-	-				5
					4	Shift Motor A	→	OFF	ON				4
					5	Shift Motor AB	→	OFF	ON				3
					6	Shift Motor B	→	OFF	ON				2
					7	Shift Motor BB	→	OFF	ON				1
						N.C	-	-	-		-	-	-
15	D4345855	D4345799	CN111	MAIN	1	24V	-	-	-	-	CN305	B8305281	15
					2	GND1	-	-	-				14
					3	5V	-	-	-				13
					4	GND2	-	-	-				12
					5	Shift Tray Jogger Motor CLK	→	-	-				11
					6	Shift Tray Jogger Motor CW	→	P	P				10
					7	Shift Tray Jogger Motor ON	→	P	P				9
					8	Shift Tray Jogger Retraction Motor CLK	→	-	-				8
					9	Shift Tray Jogger Retraction Motor CW	→	P	P				7
					10	Shift Tray Jogger Retraction Motor ON	→	P	P				6
					11	Shift Tray Jogger HP Sn	→	No H.P	H.P				5
					12	Shift Tray Jogger Retract HP Sensor	→	No H.P	H.P				4
					13	Shift Tray Jogger Unit Detect	→	No detect	Detect				3
					14	Shift Tray Jogger Unit EN	←						2
					15	GND2	-	-	-				1
		D4345775	CN142	MAIN	1	GND2	-	-	-	-	CN372	D4345772	6
					2	Shift Tray Exit Sensor (Long)	←	No paper	Paper				5
					3	5V	-	-	-				4
					4	GND2	-	-	-				3
					5	Shift Tray Exit Sensor (Short)	←	No paper	Paper				2
					6	5V	-	-	-				1
					7	N.C	-	-	-	-	-	-	-
					8	GND2	-	-	-				3
					9	Exit Guide HP Sensor	←	No HP	HP	-	CN374	D4345773	2
					10	5V	-	-	-				1
					11	N.C	-	-	-	-	-	-	-
					12	GND2	-	-	-	-	CN378	D4345834	9
					13	Paper Height Sensor (Shift)	←	No height	Height				8
					14	5V	-	-	-				7
					15	GND2	-	-	-				6
					16	Paper Height Sensor (Staple)	←	No height	Height				5
					17	5V	-	-	-				4
					18	GND2	-	-	-				3
					19	Paper Height Sensor (Z-Fold)	←	No height	Height				2
					20	5V	-	-	-				1
		D4345779	CN144	MAIN	1	5V	-	-	-	-	CN384	D4345778	4
					2	STOP_LED	→	OFF	Lit				3
					3	STOP_SW	←	OFF	ON				2
					4	GND2	-	-	-				1

Harness No.	P/N	CN (FROM)			Signal Information				Relay Harness P/N	CN (To)		
		No.	From	Pin No.	Signal	Direction	L	H		No.	To	Pin No.
16	D4345839	CN131	MAIN	1	24VSW1	-	-	-	-	CN334	Bottom Fence Lift Motor	7
				2	24VSW1	-	-	-				6
				3	N.C	-	-	-				5
				4	Stack Transport Unit Motor A	→	OFF	ON				4
				5	Stack Transport Unit Motor AB	→	OFF	ON				3
				6	Stack Transport Unit Motor B相	→	OFF	ON				2
				7	Stack Transport Unit Motor BB	→	OFF	ON				1
				8	N.C	-	-	-	-	-	-	-
				9	24VSW1	-	-	-	-	CN335	Stack Transport Unit Motor	3
				10	24VSW1	-	-	-				9
				11	N.C	-	-	-				-
				12	Stack Transport Unit Motor A	→	OFF	ON				1
				13	Stack Transport Unit Motor AB	→	OFF	ON				5
				14	Stack Transport Unit Motor B	→	OFF	ON				7
				15	Stack Transport Unit Motor BB	→	OFF	ON				11
		CN130	MAIN	1	24VSW1	-	-	-	-	CN336	Stack Feed-Out Belt Motor	7
				2	24VSW1	-	-	-				6
				3	N.C	-	-	-				5
				4	Stack Feed-Out Belt Motor A	→	OFF	ON				4
				5	Stack Feed-Out Belt Motor AB	→	OFF	ON				3
				6	Stack Feed-Out Belt Motor B	→	OFF	ON				2
				7	Stack Feed-Out Belt Motor BB	→	OFF	ON				1
				8	N.C	-	-	-	-	-	-	-
				9	24VSW1	-	-	-	-	CN333	Booklet Stapler Top Fence Motor	7
				10	24VSW1	-	-	-				6
				11	N.C	-	-	-				5
				12	Booklet Stapler Top Fence Motor A	→	OFF	ON				4
				13	Booklet Stapler Top Fence Motor AB	→	OFF	ON				3
				14	Booklet Stapler Top Fence Motor B	→	OFF	ON				2
				15	Booklet Stapler Top Fence Motor BB	→	OFF	ON				1
		CN129	MAIN	1	24VSW1	-	-	-	-	CN338	Rear Jogger Fence Motor	7
				2	24VSW1	-	-	-				6
				3	N.C	-	-	-				5
				4	Rear Jogger Fence Motor A	→	OFF	ON				4
				5	Rear Jogger Fence Motor AB	→	OFF	ON				3
				6	Rear Jogger Fence Motor B	→	OFF	ON				2
				7	Rear Jogger Fence Motor BB	→	OFF	ON				1
				8	N.C	-	-	-	-	-	-	-
				9	N.C	-	-	-	-	-	-	-
				10	24VSW1	-	-	-	-	CM339	Front Jogger Fence Motor	7
				11	24VSW1	-	-	-				6
				12	N.C	-	-	-				5
				13	Front Jogger Fence Motor A	→	OFF	ON				4
				14	Front Jogger Fence Motor AB	→	OFF	ON				3
				15	Front Jogger Fence Motor B	→	OFF	ON				2
				16	Front Jogger Fence Motor BB	→	OFF	ON				1

Harness No.	P/N	CN (FROM) No.	From	Pin No.	Signal Information Signal	Direction	L	H	Relay Harness P/N	CN (To) No.	To	Pin No.
		CN128	MAIN	1	24VSW1	-	-	-	-	CN340	Stack Plate Motor (Rear)	7
				2	24VSW1	-	-	-				5
				3	N.C	-	-	-				6
				4	Stack Plate Motor (Rear) A	→	OFF	ON				4
				5	Stack Plate Motor (Rear) AB	→	OFF	ON				3
				6	Stack Plate Motor (Rear) B	→	OFF	ON				2
				7	Stack Plate Motor (Rear) BB	→	OFF	ON				1
		CN127	MAIN	1	24VSW1	-	-	-	D4345764	CN341	-	17
				2	24VSW1	-	-	-				16
				3	N.C	-	-	-				15
				4	Stack Plate Motor (Front) A	→	OFF	ON				14
				5	Stack Plate Motor (Front) AB	→	OFF	ON				13
				6	Stack Plate Motor (Front) B	→	OFF	ON				12
				7	Stack Plate Motor (Front) BB	→	OFF	ON				11
				8	N.C	-	-	-				10
				9	24VSW1	-	-	-				9
				10	24VSW1	-	-	-				8
				11	N.C	-	-	-				7
				12	Stack Plate Motor (Center) A	→	OFF	ON				6
				13	Stack Plate Motor (Center) AB	→	OFF	ON				5
				14	Stack Plate Motor (Center) B	→	OFF	ON				4
				15	Stack Plate Motor (Center) BB	→	OFF	ON				3
				16	N.C							2
				17	N.C							1
17	D4345765	CN126	MAIN	1	24VSW1	-	-	-	-	CN344	Positioning Roller Rotation Motor	7
				2	24VSW1	-	-	-				6
				3	N.C	-	-	-				5
				4	Positioning Roller Rotation Motor A	→	OFF	ON				4
				5	Positioning Roller Rotation Motor AB	→	OFF	ON				3
				6	Positioning Roller Rotation Motor B	→	OFF	ON				2
				7	Positioning Roller Rotation Motor BB	→	OFF	ON				1
				8	N.C	-	-	-		-	-	-
				9	24VSW1	-	-	-		CN345	Positioning Roller Motor	7
				10	24VSW1	-	-	-				6
				11	N.C	-	-	-				5
				12	Positioning Roller Motor A	→	OFF	ON				4
				13	Positioning Roller Motor AB	→	OFF	ON				3
				14	Positioning Roller Motor B	→	OFF	ON				2
				15	Positioning Roller Motor BC	→	OFF	ON				1
				16	N.C	-	-	-		-	-	-
		CN125	MAIN	1	24VSW1	-	-	-	-	CN348	Stapling Tray Entrance Motor	15
				2	24VSW1	-	-	-				14
				3	N･C	-	-	-				13
				4	Stapling Tray Entrance Motor A	→	OFF	ON				12
				5	Stapling Tray Entrance Motor AB	→	OFF	ON				11
				6	Stapling Tray Entrance Motor B	→	OFF	ON				10
				7	Stapling Tray Entrance Motor BB	→	OFF	ON				9
				8	N.C	-	-	-		-	-	8
				9	24VSW1	-	-	-		CN350	Stack JG Motor	7
				10	24VSW1	-	-	-				6
				11	N.C	-	-	-				5
				12	Stack JG Motor A	→	OFF	ON				4
				13	Stack JG Motor AB	→	OFF	ON				3
				14	Stack JG Motor B	→	OFF	ON				2
				15	Stack JG Motor BC	→	OFF	ON				1
		CN124	MAIN	1	24VSW1	-	-	-	-	CN351	Stack Transport Motor	7
				2	24VSW1	-	-	-				6
				3	N.C	-	-	-				5
				4	Stack Transport Motor A	→	OFF	ON				4
				5	Stack Transport Motor AB	→	OFF	ON				3
				6	Stack Transport Motor B	→	OFF	ON				2
				7	Stack Transport Motor BB	→	OFF	ON				1
18	D4345764	CN341	D4345765	1	24VSW1	-	-	-	-	CN342	Stack Plate Motor (Front)	17
				2	24VSW1	-	-	-				16
				3	N.C	-	-	-				15
				4	Stack Plate Motor (Front) A	→	OFF	ON				14
				5	Stack Plate Motor (Front) AB	→	OFF	ON				13
				6	Stack Plate Motor (Front) B	→	OFF	ON				12
				7	Stack Plate Motor (Front) BB	→	OFF	ON				11
				8	N.C	-	-	-		-	-	10
				9	24VSW1	-	-	-		CN343	Stack Plate Motor (Center)	9
				10	24VSW1	-	-	-				8
				11	N.C	-	-	-				7
				12	Stack Plate Motor (Center) A	→	OFF	ON				6
				13	Stack Plate Motor (Center) AB	→	OFF	ON				5
				14	Stack Plate Motor (Center) B	→	OFF	ON				4
				15	Stack Plate Motor (Center) BB	→	OFF	ON				3
				16	N.C	-	-	-		-	-	2
				17	N.C	-	-	-		-	-	1
19	D4345817	CN101	MAIN	1	24V	-	-	-	-	CN21	PSU	1
				2	N.C	-	-	-				2
				3	N.C	-	-	-				3
				4	GND1	-	-	-				4
		CN210	Sub_PCB	1	Sub_24V	-	-	-	-	CN21	PSU	3
				4	Sub_GND	-	-	-				6
		CN114	MAIN	4	FAN_ON	-	-	-	-	CN20	PSU	1
				3	GND2	-	-	-				2
				2	FAN_DETECT	←	Stop	Rotate				3
				1	24V_Enable	→	OFF	ON				4
		CN29	FAN	1	24V	-	-	-	-	CN1	MAIN	3
				2	FAN_DETECT	→	Stop	Rotate				2
				3	GND1	-	-	-				1
20	D4345844	CN10	PSU	1	LINE	-	-	-	-	T910	Breaker	-
				2	Neautral	-	-	-		T911		-
21	D4345845	T900	Breaker	-	LINE	-	-	-	-	-	Inlet	-
		T901		-	Neautral	-	-	-	-	-		-

Harness No.	P/N	CN (FROM)			Signal Information				Relay Harness P/N	CN (To)		
		No.	From	Pin No.	Signal	Direction	L	H		No.	To	Pin No.
22	D4345781	CN147	MAIN	1	GND2	-	-	-	D4345782	CN387	Shift Tray Full Sensor	7
				2	Shift Tray Full Sensor	←	Not full	Full				6
				3	5V	-	-	-				5
				-	-	-	-	-		-	-	4
				4	GND2	-	-	-		CN388	Shift Tray Full Sensor	3
				5	Shift Tray Full Sensor	←	Not full	Full				2
				6	5V	-	-	-				1
				7	N.C	-	-	-	-	-	-	-
				8	N.C	-	-	-	-	-	-	-
				9	GND2	-	-	-	D4345783	CN389	-	6
				10	Booklet Tray Full Sensor (Upper)	←	Not full	Full				5
				11	5V	-	-	-				4
				12	GND2	-	-	-				3
				13	Booklet Tray Full Sensor (Lower)	←	Not full	Full				2
				14	5V	-	-	-				1
24	D4345883	CN389	D4345781	1	GND2	-	-	-	-	CN390	Booklet Tray Full Sensor	3
				2	Booklet Tray Full Sensor (Upper)	←	Not full	Full				2
				3	5V	-	-	-				1
				4	GND2	-	-	-		CN391	Booklet Tray Full Sensor	3
				5	Booklet Tray Full Sensor (Lower)	←	Not full	Full				2
				6	5V	-	-	-				1
25	D4345784	CN148	MAIN	1	GND2	-	-	-	D4345785	CN398	-	8
				2	Paper Height Sensor (TE)	←	No Heigh	Height				7
				3	5V	-	-	-				6
					N.C	-	-	-				5
					N.C	-	-	-				4
				4	GND2	-	-	-				3
				5	Drag Roller HP Sensor	←	No HP	HP				2
				6	5V	-	-	-				1
				7	N.C	-	-	-	-	-	-	-
				8	GND2	-	-	-	D4345786	CN394	-	9
				9	Shift Tray HP Sensor (Front)	←	No HP	HP				8
				10	5V	-	-	-				7
					N.C	-	-	-				6
					N.C	-	-	-				5
					N.C	-	-	-				4
				11	GND2	-	-	-				3
				12	Shift Tray HP Sensor (Rear)	←	No HP	HP				2
				13	5V	-	-	-				1
26	D4345785	CN398	D4345784	1	GND2	-	-	-	-	CN392	Shift Tray HP Sensor (Rear)	3
				2	Shift Tray HP Sensor (Rear)	←	No HP	HP				2
				3	5V	-	-	-				1
				4	N.C	-	-	-		-	-	-
				5	N.C	-	-	-		-	-	-
				6	GND2	-	-	-		CN393	Drag Roller HP Sensor	3
				7	Drag Roller HP Sensor	←	No HP	HP				2
				8	5V	-	-	-				1
27	D4345786	CN394	D4345784	1	GND2	-	-	-	-	CN395	Shift Tray HP Sensor (Front)	3
				2	Shift Tray HP Sensor (Front)	←	No HP	HP				2
				3	5V	-	-	-				1
				4	N.C	-	-	-		-	-	-
				5	N.C	-	-	-		-	-	-
				6	N.C	-	-	-		-	-	-
				7	GND2	-	-	-		CN396	Paper Height Sensor	3
				8	Paper Height Sensor (TE)	←	No Heigh	Height				2
				9	5V	-	-	-				1
28	D4345797	CN102	MAIN	1	24V	-	-	-	-	T1	Interlock SW1	-
				2	24VSW1	-	-	-		T2		-
		CN211	MAIN	1	24V	-	-	-	-	T3	Interlock SW2	-
				2	24VSW2	-	-	-		T4		-
29	D4345843	CN105	MAIN	1	GND1	-	-	-	-	CN702	Lattice connentor	9
				2	GND1	-	-	-				8
				3	GND1	-	-	-				7
				4	GND1	-	-	-				6
				5	24V	-	-	-				5
				6	24V	-	-	-				4
				7	24V	-	-	-				3
				8	24V	-	-	-				2
				9	N･C	-	-	-				1
		CN106	MAIN	1	GND2	-	-	-	-	CN703	Lattice connentor	8
				2	RXD	←	-	-				7
				3	GND2	-	-	-				6
				4	TXD	→	-	-				5
				5	5V	-	-	-				4
				6	5VI	-	-	-				3
				7	GND	-	-	-				2
				8	GND	-	-	-				1
32	B8305281	CN706	D4345799	1	24V	-	-	-	-	CN700	Shift Tray Unit PCB	13
				2	GND1	-	-	-				12
				3	5V	-	-	-				11
				4	GND2	-	-	-				10
				5	Shift Tray Jogger M CLK	→	-	-				9
				6	Shift Tray Jogger M CW	→	CW	CCW				8
				7	Shift Tray Jogger M ON	→	ON	HOLD				7
				8	Shift Tray Jogger Retract M CLK	→	-	-				6
				9	Shift Tray Jogger Retract M CW	→	CW	CCW				5
				10	Shift Tray Jogger Retract M ON	→	ON	HOLD				4
				11	Shift Tray Jogger HP Sn	→	No HP	HP				3
				12	Shift Tray Jogger Retract HP Sensor	←	No HP	HP				2
				13	Shift Tray Jogger Unit detect	←	Detect	No detect				1
				14	Shift Tray Jogger Unit Enable	→	OFF	ON		CN730	Shift Tray Unit PCB	2
				15	GND2	-	-	-				1

Harness No.	P/N	CN (FROM)			Signal Information				Relay Harness P/N	CN (To)		
		No.	From	Pin No.	Signal	Direction	L	H		No.	To	Pin No.
33	B8305280	CN720	Shift Tray Unit PCB	1	GND2	-	-	-	-	CN241	Shift Tray Jogger HP Sn	3
				2	Shift Tray Jogger HP Sn	←	No HP	HP				2
				3	5V	-	-	-				1
				4	GND2	-	-	-		CN240	Shift Tray Jogger Retract HP	3
				5	Shift Tray Jogger Retract HP Sensor	←	No HP	HP				2
				6	5V	-	-	-				1
34	B8305282	CN710	Shift Tray Unit PCB	1	24V	-	-	-	-	CN278	Shift Tray Jogger Motor	7
				2	24V	-	-	-				6
				3	N.C	-	-	-				5
				4	A	→	ON	OFF				4
				5	AB	→	ON	OFF				3
				6	B	→	ON	OFF				2
				7	BB	→	ON	OFF				1
				8	N.C	-	-	-	-	-	-	-
				9	24V	-	-	-	-	CN279	Shift Tray Jogger Retraction Motor	7
				10	24V	-	-	-				6
				11	N.C	-	-	-				5
				12	A	→	ON	OFF				4
				13	AB	→	ON	OFF				3
				14	B	→	ON	OFF				2
				15	BB	→	ON	OFF				1
35	D4345769	CN134	MAIN	1	24V	-	-	-	-	CM360	Proof Tray JG Motor	7
				2	24V	-	-	-				6
				3	N.C	-	-	-				5
				4	A	→	OFF	ON				4
				5	AB	→	OFF	ON				3
				6	B	→	OFF	ON				2
				7	BB	→	OFF	ON				1
				8	N・C	-	-	-	-	-	-	-
				9	N・C	-	-	-	-	-	-	-
				10	24V	-	-	-	-	CN355	Stapler JG Motor	7
				11	24V	-	-	-				6
				12	N・C	-	-	-				5
				13	A	→	OFF	ON				4
				14	AB	→	OFF	ON				3
				15	B	→	OFF	ON				2
				16	BB	→	OFF	ON				1
		CN135	MAIN	1	24V	-	-	-	-	CN356	Exit Guide Motor	7
				2	24V	-	-	-				6
				3	N.C	-	-	-				5
				4	A	→	OFF	ON				4
				5	AB	→	OFF	ON				3
				6	B	→	OFF	ON				2
				7	BB	→	OFF	ON				1
		CN136	MAIN	1	24V	-	-	-	-	CN358	Horizontal Transport Motor	7
				2	24V	-	-	-				6
				3	N.C	-	-	-				5
				4	A	→	OFF	ON				4
				5	AB	→	OFF	ON				3
				6	B	→	OFF	ON				2
				7	BB	→	OFF	ON				1
				8	N.C	-	-	-	-	-	-	-
				9	N.C	-	-	-	-	-	-	-
				10	24V	-	-	-	-	CN359	Shift Tray Exit Motor	7
				11	24V	-	-	-				6
				12	N.C	-	-	-				5
				13	A	→	OFF	ON				4
				14	AB	→	OFF	ON				3
				15	B	→	OFF	ON				2
				16	BB	→	OFF	ON				1
				17	N・C	-	-	-	-	-	-	-
		CN150	MAIN	1	T1	-	-	-	D4345818	CN401	-	3
				-	-	-	-	-				2
				2	T2	-	-	-				1
				3	Motor_CLK	→	-	-	-	CN361	Shift Tray Lift Motor	1
				4	N.C	-	-	-				2
				5	Motor_CCW/CW	→	CW	CCW				3
				6	Motor_START/STOP	→	STOP	START				4
				7	Motor_LOCK	←	UNLOCK	LOCK				5
				8	5V	-	-	-				6
				9	GND2	-	-	-				7
				10	GND1	-	-	-				8
				11	GND1	-	-	-				9
				12	24V	-	-	-				10
				13	24V	-	-	-				11

Harness No.	P/N	CN (FROM)			Signal Information				Relay Harness P/N	CN (To)		
		No.	From	Pin No.	Signal	Direction	L	H		No.	To	Pin No.
		CN145	MAIN	1	GND2	-	-	-	-	CN502	Unit Connector A	20
				2	Stack Feed-Out Belt HP Sensor	←	No HP	HP				19
				3	5V	-	-	-				18
				4	GND2	-	-	-				17
				5	Bottom Fence HP Sensor	←	No HP	HP				16
				6	5V	-	-	-				15
				7	N.C	-	-	-				14
				8	GND2	-	-	-				13
				9	Front Jogger Fence HP Sensor	←	No HP	HP				12
				10	5V	-	-	-				11
				11	GND2	-	-	-				10
				12	Rear Jogger Fence HP Sensor	←	No HP	HP				9
				13	5V	-	-	-				8
				14	N.C	-	-	-				7
				15	GND2	-	-	-				6
				16	Top Fence HP Senor	←	No HP	HP				5
				17	5V	-	-	-				4
				18	GND2	-	-	-				3
				19	Stapling Tray Paper Sensor	←	No Paper	Paper				2
				20	5V	-	-	-				1
				21	N.C	-	-	-	-	-	-	-
				22	GND2	-	-	-	-	CN503	Unit Connector A	18
				23	Stapling Tray Unit detect	←	No detet	Detect				17
				24	5V	-	-	-				16
				25	N.C	-	-	-				15
				26	GND2	-	-	-				14
				27	Stapling Tray Entrance Sensor	←	No Paper	Paper				13
				28	5V	-	-	-				12
				29	N.C	-	-	-				11
				30	GND2	-	-	-				10
				31	Stack Plate HP Sensor (Front)	←	No HP	HP				9
				32	5V	-	-	-				8
				33	GND2	-	-	-				7
				34	Stack Plate HP Sensor (Center)	←	No HP	HP				6
				35	5V	-	-	-				5
				36	GND2	-	-	-				4
				37	Stack Plate HP Sensor (Rear)	←	No HP	HP				3
				38	5V	-	-	-				2
				39	N.C	-	-	-				1
				40	N.C	-	-	-	-	-	-	-
36	D4345787	CN146	MAIN	1	N.C	-	-	-	-	CN500	Unit Connector A	10
				2	GND2	-	-	-				9
				3	Stack Transport Unit HP Sensor	←	No HP	HP				8
				4	5V	-	-	-				7
				5	GND2	-	-	-				6
				6	Stack JG HP Sensor	←	No HP	HP				5
				7	5V	-	-	-				4
				8	GND2	-	-	-				3
				9	Positioning Roller HP Sensor	←	No HP	HP				2
				10	5V	-	-	-				1
				11	N.C	-	-	-	-	-	-	-
				-	-	-	-	-	-	CN501	Unit Connector A	12
				12	GND2	-	-	-				11
				13	Corner Stapler HP Sensor	←	No HP	HP				10
				15	5V	-	-	-				9
				15	GND2	-	-	-				8
				16	Stapler Rotation HP Sensor (Front)	←	No HP	HP				7
				17	5V	-	-	-				6
				18	N.C	-	-	-				5
				19	GND2	-	-	-				4
				20	Stapler Rotation HP Sensor (Rear)	←	No HP	HP				3
				21	5V	-	-	-				2
39	D4345790	CN502	it Connecto	1	GND2	-	-	-	D4345791	CN312	-	6
				2	Stack Feed-Out Belt HP Sensor	←	No HP	HP				5
				3	5V	-	-	-				4
				4	GND2	-	-	-				3
				5	Bottom Fence HP Sensor	←	No HP	HP				2
				6	5V	-	-	-				1
				7	N.C	-	-	-	-	-	-	-
				8	GND2	-	-	-	-	CN313	Front Jogger Fence HP	3
				9	Front Jogger Fence HP Sensor	←	No HP	HP				2
				10	5V	-	-	-				1
				11	GND2	-	-	-	-	CN314	Rear Jogger Fence HP	3
				12	Rear Jogger Fence HP Sensor	←	No HP	HP				2
				13	5V	-	-	-				1
				14	N.C	-	-	-	-	-	-	-
				15	GND2	-	-	-	D4345792	CN315	-	6
				16	Top Fence HP Senor	←	No HP	HP				5
				17	5V	-	-	-				4
				18	GND2	-	-	-				3
				19	Stapling Tray Paper Sensor	←	No Paper	Paper				2
				20	5V	-	-	-				1
40	D4345793	CN503	it Connecto	1	GND2	-	-	-	D4345793	CN320	-	2
				2	Stapling Tray Unit detect	←	No detet	Detect				1
				3	5V	-	-	-	-	-	-	-
				4	N.C	-	-	-	-	-	-	-
				5	GND2	-	-	-	D4345794	CN325	-	3
				6	Stapling Tray Entrance Sensor	←	No Paper	Paper				2
				7	5V	-	-	-				1
				8	N.C	-	-	-	-	-	-	-
				9	GND2	-	-	-	D4345795	CN326	-	9
				10	Stack Plate HP Sensor (Front)	←	No HP	HP				8
				11	5V	-	-	-				7
				12	GND2	-	-	-				6
				13	Stack Plate HP Sensor (Center)	←	No HP	HP				5
				14	5V	-	-	-				4
				15	GND2	-	-	-				3
				16	Stack Plate HP Sensor (Rear)	←	No HP	HP				2
				17	5V	-	-	-				1
				18	N.C	-	-	-	-	-	-	-
		CN320	it Connecto	2	GND2	-	-	-	-	CN321	Stapling Tray Unit detect	1
				1	Stapling Tray Unit detect	←	No detet	Detect	-			2

Harness No.	P/N	CN (FROM)			Signal Information				Relay Harness P/N	CN (To)		
		No.	From	Pin No.	Signal	Direction	L	H		No.	To	Pin No.
41	D4345837	CN500	it Connecto	1	N･C	-	-	-	-	-	-	-
				2	GND2	-	-	-	-	CN307	Stack Transport Unit HP	3
				3	Stack Transport Unit HP Sensor	←	No HP	HP				2
				4	5V	-	-	-				1
				5	GND2	-	-	-	-	CN308	Stack JG HP Sensor	3
				6	Stack JG HP Sensor	←	No HP	HP				2
				7	5V	-	-	-				1
				8	GND2	-	-	-	-	CN309	Positioning Roller HP Sensor	3
				9	Positioning Roller HP Sensor	←	No HP	HP				2
				10	5V	-	-	-				1
42	D4345789	CN501	it Connecto	1	N･C	-	-	-	.	-	-	-
				2	GND2	-	-	-	D4345762	CN311	-	10
				3	Corner Stapler HP Sensor	←	No HP	HP				9
				4	5V	-	-	-				8
				5	GND2	-	-	-				7
				6	Stapler Rotation HP Sensor (Front)	←	No HP	HP				6
				7	5V	-	-	-				5
				8	N.C	-	-	-				4
				9	GND2	-	-	-				3
				10	Stapler Rotation HP Sensor (Rear)	←	No HP	HP				2
				11	5V	-	-	-				1
				12	N.C	-	-	-	-	-	-	-
43	D4345791	CN312	D4345790	1	GND2	-	-	-	-	CN316	Stack Feed-Out Belt HP	3
				2	Stack Feed-Out Belt HP Sensor	←	No HP	HP				2
				3	5V	-	-	-				1
				4	GND2	-	-	-		CN317	Bottom Fence HP Sensor	3
				5	Bottom Fence HP Sensor	←	No HP	HP				2
				6	5V	-	-	-				1
44	D4345792	CN315	D4345790	1	GND2	-	-	-	-	CN318	Top Fence HP Senor	3
				2	Top Fence HP Senor	←	No HP	HP				2
				3	5V	-	-	-				1
				4	GND2	-	-	-	-	CN319	Stapling Tray Paper Sensor	3
				5	Stapling Tray Paper Sensor	←	No Paper	Paper				2
				6	5V	-	-	-				1
45	D4345794	CN325	D4345793	1	GND2	-	-	-	-	CN327	Stapling Tray Entrance	3
				2	Stapling Tray Entrance Sensor	←	No Paper	Paper				2
				3	5V	-	-	-				1
46	D4345795	CN326	D4345793	1	GND2	-	-	-	-	CN328	Stack Plate HP Sensor	3
				2	Stack Plate HP Sensor (Front)	←	No HP	HP				2
				3	5V	-	-	-				1
				4	GND2	-	-	-	-	CN329	Stack Plate HP Sensor	3
				5	Stack Plate HP Sensor (Center)	←	No HP	HP				2
				6	5V	-	-	-				1
				7	GND2	-	-	-	-	CN330	Stack Plate HP Sensor	3
				8	Stack Plate HP Sensor (Rear)	←	No HP	HP				2
				9	5V	-	-	-				1
47	D4345762	CN311	D4545789	1	GND2	-	-	-	-	JC416	Corner Stapler HP Sensor	3
				2	Corner Stapler HP Sensor	←	No HP	HP				2
				3	5V	-	-	-				1
				4	GND2	-	-	-	-	JC417	Stapler Rotation HP Sensor	3
				5	Stapler Rotation HP Sensor (Front)	←	No HP	HP				2
				6	5V	-	-	-				1
				7	N.C	-	-	-		-	-	-
				8	GND2	-	-	-		JC418	ｽﾃｰﾌﾟﾙ斜め HPSN	3
				9	Stapler Rotation HP Sensor (Rear)	←	No HP	HP				2
				10	5V	-	-	-				1
		CN409	D4345761	1	24VSW1	-	-	-	-	CN415	Stapler Rotation Motor	7
				2	24VSW2	-	-	-				6
				3	N.C	-	-	-				5
				4	A	→	OFF	ON				4
				5	AB	→	OFF	ON				3
				6	B	→	OFF	ON				2
				7	BB	→	OFF	ON				1
				8	N.C	-	-	-				-
48	D4345760	CN121	MAIN	-		-	-	-	D4345761	CN412	-	11
				1	5V	-	-	-				10
				2	Self Priming SN	←	Ready	Un-Ready				9
				3	N.C	-	-	-				8
				4	GND2	-	-	-				7
				5	Stapler HP SN	←	No HP	HP				6
				6	Staple End SN	←	No end	End				5
				7	N.C	-	-	-				4
				8	GND2	-	-	-				3
				9	Shutter Solenoid	←						2
				10	24VSW1	-	-	-				1
49	D4345761	CN123	MAIN	1	24VSW1	-	-	-	D4345762	CN409	-	8
				2	24VSW1	-	-	-				7
				3	N.C	-	-	-				6
				4	Stapler Rotation Motor A	→	OFF	ON				5
				5	Stapler Rotation Motor AB	→	OFF	ON				4
				6	Stapler Rotation Motor B	→	OFF	ON				3
				7	Stapler Rotation Motor BB	→	OFF	ON				2
				8	N.C	-	-	-				1
				9	24VSW1	-	-	-	-	CN410	Corner Stapler Movement Motor	7
				10	24VSW1	-	-	-				6
				11	N.C	-	-	-				5
				12	A	→	OFF	ON				4
				13	AB	→	OFF	ON				3
				14	B	→	OFF	ON				2
				15	BB	→	OFF	ON				1
				16	N.C	-	-	-				-
				17	N.C	-	-	-				-
				18	N.C	-	-	-				-
		CN122	MAIN	1	Corner Stapler M -	→	OFF	ON	-	CN411	Corner Stapler Motor	2
				2	Corner Stapler M +	→	OFF	ON				1
		CN412	D4345760	1	N.C	-	-	-	-	CN413	Corner Stapler Motor	11
				2	5V	-	-	-				10
				3	Self Priming SN	←	Ready	Un-Ready				9
				4	N.C	-	-	-				8
				5	GND2	-	-	-				7
				6	Stapler HP SN	←	No HP	HP				6
				7	Staple End SN	←	No end	End				5
				8	N.C	-	-	-				4
				9	GND2	-	-	-				3
				10	Shutter Solenoid	←	OFF	ON	D4345763	CN414	-	2
				11	24VSW1	-	-	-				1

Harness No.	P/N	CN (FROM)			Signal Information				Relay Harness P/N	CN (To)		
		No.	From	Pin No.	Signal	Direction	L	H		No.	To	Pin No.
50	D4345763	CN414	D4345761	1	Shutter Solenoid	-	-	-	-	CN419	Shutter Solenoid	2
				2	24VSW1	-	-	-				1
51	D4345803	CN153	MAIN	1	GND2	-	-	-	-	CN802	Unit Connector B	20
				2	Booklet Stapler Clamp Roller HP Sensor	←	No HP	HP				19
				3	5V	-	-	-				18
				4	GND2	-	-	-				17
				5	Booklet Stapler Exit Sensor	←	No Paper	Paper				16
				6	5V	-	-	-				15
				7	N.C	-	-	-				14
				8	GND2	-	-	-				13
				9	Fold Plate Cam HP Sensor	←	No HP	HP				12
				10	5V	-	-	-				11
				11	N.C	-	-	-				10
				12	GND2	-	-	-				9
				13	Fold Unit Entrance Sensor	←	No Paper	Paper				8
				14	5V	-	-	-				7
				15	5V	-	-	-				6
				16	Staple End SN2	←	No End	End				5
				17	GND2	-	-	-				4
				18	Staple End SN1	←	No End	End				3
				19	Stapler HP SN	←	No HP	HP				2
				20	N.C	-	-	-				1
		CN152		1	GND2	-	-	-	-	CN801	Unit Connector B	18
				2	Booklet Stapler Jogger HP Sensor (Front)	←	No HP	HP				17
				3	5V	-	-	-				16
				4	GND2	-	-	-				15
				5	Booklet Stapler Bottom Fence HP Sensor	←	No HP	HP				14
				6	5V	-	-	-				13
				7	N.C	-	-	-				12
				8	GND2	-	-	-				11
				9	Booklet Stapler Jogger HP Sensor (Rear)	←	No HP	HP				10
				10	5V	-	-	-				9
				11	N.C	-	-	-				8
				12	GND2	-	-	-				7
				13	Fold Plate HP Sensor	←	No HP	HP				6
				14	5V	-	-	-				5
				15	GND2	-	-	-				4
				16	Booklet Top Fence HP Sensor	←	No HP	HP				3
				17	5V	-	-	-				2
				18	N.C	-	-	-				1
52	D4345804	CN802	UNITｺﾈｸﾀB	1	GND2	-	-	-	D4345811	CN804	-	20
				2	Booklet Stapler Clamp Roller HP Sensor	←	No HP	HP				19
				3	5V	-	-	-				18
				4	GND2	-	-	-				17
				5	Booklet Stapler Exit Sensor	←	No Paper	Paper				16
				6	5V	-	-	-				15
				7	N.C	-	-	-				14
				8	GND2	-	-	-				13
				9	Fold Plate Cam HP Sensor	←	No HP	HP				12
				10	5V	-	-	-				11
				11	N.C	-	-	-				10
				12	GND2	-	-	-				9
				13	Fold Unit Entrance Sensor	←	No Paper	Paper				8
				14	5V	-	-	-				7
				15	5V	-	-	-				6
				16	Staple End SN2	←	No End	End				5
				15	GND2	-	-	-				4
				18	Staple End SN1	←	No End	End				3
				19	Stapler HP SN	←	No HP	HP				2
				20	N.C	-	-	-				1
		CN801	UNITｺﾈｸﾀB	1	GND2	-	-	-	D4345809	CN803	-	18
				2	Booklet Stapler Jogger HP Sensor (Front)	←	No HP	HP				17
				3	5V	-	-	-				16
				4	GND2	-	-	-				15
				5	Booklet Stapler Bottom Fence HP Sensor	←	No HP	HP				14
				6	5V	-	-	-				13
				7	N.C	-	-	-				12
				8	GND2	-	-	-				11
				9	Booklet Stapler Jogger HP Sensor (Rear)	←	No HP	HP				10
				10	5V	-	-	-				9
				11	N.C	-	-	-				8
				12	GND2	-	-	-				7
				13	Fold Plate HP Sensor	←	No HP	HP				6
				14	5V	-	-	-				5
				15	GND2	-	-	-				4
				16	Booklet Top Fence HP Sensor	←	No HP	HP				3
				17	5V	-	-	-				2
				18	N.C	-	-	-				1
53	D4345809	CN803	D4345804	1	GND2	-	-	-	-	CN840	Booklet Stapler Jogger HP Sensor (Front)	3
				2	Booklet Stapler Jogger HP Sensor (Front)	←	No HP	HP				2
				3	5V	-	-	-				1
				4	GND2	-	-	-		CN841	Booklet Stapler Bottom Fence HP Sensor	3
				5	Booklet Stapler Bottom Fence HP Sensor	←	No HP	HP				2
				6	5V	-	-	-				1
				7	N.C	-	-	-		-	-	-
				8	GND2	-	-	-		CN842	Booklet Stapler Jogger HP Sensor (Rear)	3
				9	Booklet Stapler Jogger HP Sensor (Rear)	←	No HP	HP				2
				10	5V	-	-	-				1
				11	N.C	-	-	-		-	-	-
				12	GND2	-	-	-		CN843	Fold Plate HP Sensor	3
				13	Fold Plate HP Sensor	←	No HP	HP				2
				14	5V	-	-	-				1
				15	GND2	-	-	-		CN844	Booklet Top Fence HP Sensor	3
				16	Booklet Top Fence HP Sensor	←	No HP	HP				2
				17	5V	-	-	-				1
				18	N.C	-	-	-		-	-	-

Harness No.	P/N	CN (FROM)			Signal Information				Relay Harness P/N	CN (To)		
		No.	From	Pin No.	Signal	Direction	L	H		No.	To	Pin No.
54	D4345811	CN804	D4345804	1	GND2	-	-	-	D4345806	CN845	-	3
				2	Booklet Stapler Clamp Roller HP Sensor	←	No HP	HP				2
				3	5V	-	-	-				1
				4	GND2	-	-	-	D4345814	CM846	-	4
				5	Booklet Stapler Exit Sensor	←	No Paper	Paper				3
				6	5V	-	-	-				2
				7	N.C	-	-	-				1
				8	GND2	-	-	-	-	CN849	Fold Plate Cam HP Sensor	3
				9	Fold Plate Cam HP Sensor	←	No HP	HP				2
				10	5V	-	-	-				1
				11	N.C	-	-	-	-	-	-	-
				12	GND2	-	-	-	-	CN850	Fold Unit Entrance Sensor	3
				13	Fold Unit Entrance Sensor	←	No Paper	Paper				2
				14	5V	-	-	-				1
				15	5V	-	-	-	D4345810	CN851	-	5
				16	Staple End SN2	←	No End	End				4
				17	GND2	-	-	-				3
				18	Staple End SN1	←	No End	End				2
				19	Stapler HP SN	←	No HP	HP				1
				20	N.C	-	-	-	-	-	-	-
55	D4345806	CN845	D4345811	3	GND2	-	-	-	-	CN847	Booklet Stapler Clamp Roller HP Sensor	3
				2	Booklet Stapler Clamp Roller HP Sensor	←	No HP	HP				2
				1	5V	-	-	-				1
56	D4345814	CN846	D4345811	4	GND2	-	-	-	-	CN848	Booklet Stapler Exit Sensor	3
				3	Booklet Stapler Exit Sensor	←	No Paper	Paper				2
				2	5V	-	-	-				1
				1	N.C	-	-	-				-
57	D4345810	CN851	D4345811	1	5V	-	-	-	D4345813	CN852	-	10
				2	Staple End SN2	-	-	-				9
				3	GND2	-	-	-				8
				4	Staple End SN1	-	-	-				7
				5	Stapler HP SN	-	-	-				6
		CN805		1	DCM+	-	-	-				5
				2	DCM+	-	-	-				4
				3	-	-	-	-				3
				4	N.C	-	-	-				2
				5	DCM-	-	-	-				1
58	D4345813	CN852	D4345810	1	5V	-	-	-	-	CN853	Booklet Stapler Motor	10
				2	Staple End SN2	←	OFF	ON				9
				3	GND2	-	-	-				8
				4	Staple End SN1	←	OFF	ON				7
				5	Stapler HP SN	←	OFF	ON				6
				6	DCM+	-	-	-				5
				7	DCM+	-	-	-				4
				8	-	-	-	-				3
				9	N.C	-	-	-				2
				10	DCM-	-	-	-				1
59	D4345857	CN109	Unit Connecto	1	GND2	-	-	-	-	CN115	Shift Tray Full Sensor	3
				2	Shift Tray Full Sensor (1000)	←	No full	Full				2
				3	5V	-	-	-				1
				4	GND2	-	-	-	-	CN116	Shift Tray Full Sensor	3
				5	Shift Tray Full Sensor (500)	←	No full	Full				2
				6	5V	-	-	-				1
				7	N.C	-	-	-	-	-	-	-
				8	N.C	-	-	-				-
				9	N.C	-	-	-				-
60	D4345818	CN401	D4345769	1	T1	-	-	-	-	T1 - T2	Shift Tray Upper Limit	3
				2	N.C	-	-	-				2
				3	T2	-	-	-				1

Harness No.	P/N	CN (FROM)			Signal Information				Relay Harness P/N	CN (To)		
		No.	From	Pin No.	Signal	Direction	L	H		No.	To	Pin No.
61	D4345807	CN205	SUB	1	DCM+	-	-	-	D4345810	CN805	-	5
				2	DCM+	-	-	-				4
				3	N.C	-	-	-				3
				4	DCM-	-	-	-				2
				5	DCM-	-	-	-				1
		CN206	SUB	1	24VSW2	-	-	-	D4345812	CN806	-	16
				2	24VSW2	-	-	-				15
				3	N.C	-	-	-				14
				4	Booklet Stapler Clamp Roller Motor A	→	OFF	ON				13
				5	Booklet Stapler Clamp Roller Motor AB	→	OFF	ON				12
				6	Booklet Stapler Clamp Roller Motor B	→	OFF	ON				11
				7	Booklet Stapler Clamp Roller Motor BB	→	OFF	ON				10
				8	N.C	-	-	-				9
				9	N.C	-	-	-				8
				10	24VSW2	-	-	-				7
				11	24VSW2	-	-	-				6
				12	N.C	-	-	-				5
				13	Booklet Stapler Bottom Fence Motor A	→	OFF	ON				4
				14	Booklet Stapler Bottom Fence Motor AB	→	OFF	ON				3
				15	Booklet Stapler Bottom Fence Motor B	→	OFF	ON				2
				16	Booklet Stapler Bottom Fence Motor BB	→	OFF	ON				1
		CN208	SUB	1	24VSW2	-	-	-	D4345850	CN807	-	15
				2	24VSW2	-	-	-				14
				3	N.C	-	-	-				13
				4	Booklet Stapler Side Fence Motor A	→	OFF	ON				12
				5	Booklet Stapler Side Fence Motor AB	→	OFF	ON				11
				6	Booklet Stapler Side Fence Motor B	→	OFF	ON				10
				7	Booklet Stapler Side Fence Motor BB	→	OFF	ON				9
				8	N.C	-	-	-				8
				9	24VSW2	-	-	-				7
				10	24VSW2	-	-	-				6
				11	N.C	-	-	-				5
				12	Booklet Stapler Bottom Fence Motor A	→	OFF	ON				4
				13	Booklet Stapler Bottom Fence Motor AB	→	OFF	ON				3
				14	Booklet Stapler Bottom Fence Motor B	→	OFF	ON				2
				15	Booklet Stapler Bottom Fence Motor BB	→	OFF	ON				1
62	D4345812	CN806	D4345807	1	24VSW2	-	-	-	-	CN810	Booklet Stapler Clamp Roller Motor	7
				2	24VSW2	-	-	-				6
				3	N.C	-	-	-				5
				4	Booklet Stapler Clamp Roller Motor A	→	OFF	ON				4
				5	Booklet Stapler Clamp Roller Motor AB	→	OFF	ON				3
				6	Booklet Stapler Clamp Roller Motor B	→	OFF	ON				2
				7	Booklet Stapler Clamp Roller Motor BB	→	OFF	ON				1
				8	N.C	-	-	-	-	-	-	-
				9	N.C	-	-	-	-	-	-	-
				10	24VSW2	-	-	-	-	CN811	Booklet Stapler Bottom Fence Motor	7
				11	24VSW2	-	-	-				6
				12	N.C	-	-	-				5
				13	Booklet Stapler Bottom Fence Motor A	→	OFF	ON				4
				14	Booklet Stapler Bottom Fence Motor AB	→	OFF	ON				3
				15	Booklet Stapler Bottom Fence Motor B	→	OFF	ON				2
				16	Booklet Stapler Bottom Fence Motor BB	→	OFF	ON				1
63	D4345850	CN807	D4345807	15	24VSW2	-	-	-	-	CN812	Booklet Stapler Side Fence Motor	7
				14	24VSW2	-	-	-				6
				13	N.C	-	-	-				5
				12	Booklet Stapler Side Fence Motor A	→	OFF	ON				4
				11	Booklet Stapler Side Fence Motor AB	→	OFF	ON				3
				10	Booklet Stapler Side Fence Motor B	→	OFF	ON				2
				9	Booklet Stapler Side Fence Motor BB	→	OFF	ON				1
				8	N.C	-	-	-	-	-	-	-
				7	24VSW2	-	-	-	-	CN813	Booklet Stapler Bottom Fence Motor	7
				6	24VSW2	-	-	-				6
				5	N.C	-	-	-				5
				4	Booklet Stapler Bottom Fence Motor A	→	OFF	ON				4
				3	Booklet Stapler Bottom Fence Motor AB	→	OFF	ON				3
				2	Booklet Stapler Bottom Fence Motor B	→	OFF	ON				2
				1	Booklet Stapler Bottom Fence Motor BB	→	OFF	ON				1
64	D4345822	CN207	SUB	1	24VSW2	-	-	-	-	CN808	Fold Plate Motor	3
				2	24VSW2	-	-	-				9
				3	N.C	-	-	-				-
				4	Fold Plate Motor A	→	OFF	ON				1
				5	Fold Plate Motor AB	→	OFF	ON				5
				6	Fold Plate Motor B	→	OFF	ON				7
				7	Fold Plate Motor BB	→	OFF	ON				11
				8	N.C	-	-	-	-			-
				9	24VSW2	-	-	-	-	CN809	Fold Roller Motor	3
				10	24VSW2	-	-	-				9
				11	N.C	-	-	-				-
				12	Fold Roller Motor A	→	OFF	ON				1
				13	Fold Roller Motor AB	→	OFF	ON				5
				14	Fold Roller Motor B	→	OFF	ON				7
				15	Fold Roller Motor BB	→	OFF	ON				11
67	D4345815	CN203	SUB	1	24V	-	-	-	-	CN403	Proof Tray Exit Motor	7
				2	24V	-	-	-				6
				3	N.C	-	-	-				5
				4	Proof Tray Exit Motor A	→	OFF	ON				4
				5	Proof Tray Exit Motor AB	→	OFF	ON				3
				6	Proof Tray Exit Motor B	→	OFF	ON				2
				7	Proof Tray Exit Motor BB	→	OFF	ON				1
				8	N.C	-	-	-	-	-	-	-
				9	N.C	-	-	-	-	-	-	-
				10	24V	-	-	-	-	CN404	Pre-Stack JG Motor	7
				11	24V	-	-	-				6
				12	N.C	-	-	-				5
				13	Pre-Stack JG Motor A	→	OFF	ON				4
				14	Pre-Stack JG Motor AB	→	OFF	ON				3
				15	Pre-Stack JG Motor B	→	OFF	ON				2
				16	Pre-Stack JG Motor BB	→	OFF	ON				1

Harness No.	P/N	CN (FROM)			Signal Information				Relay Harness P/N	CN (To)		
		No.	From	Pin No.	Signal	Direction	L	H		No.	To	Pin No.
68	D4345836	CN201	SUB	1	24V	-	-	-	-	CN407	Pre-Stack Release Motor	7
				2	24V	-	-	-				6
				3	N.C	-	-	-				5
				4	Pre-Stack Release Motor A	→	OFF	ON				4
				5	Pre-Stack Release Motor AB	→	OFF	ON				3
				6	Pre-Stack Release Motor B	→	OFF	ON				2
				7	Pre-Stack Release Motor BB	→	OFF	ON				1
				8	N.C	-	-	-	-	-	-	-
				9	N.C	-	-	-	-	-	-	-
				10	24V	-	-	-	-	CN408	Pre-Stack Motor	7
				11	24V	-	-	-				6
				12	N.C	-	-	-				5
				13	Pre-Stack Motor A	→	OFF	ON				4
				14	Pre-Stack Motor AB	→	OFF	ON				3
				15	Pre-Stack Motor B	→	OFF	ON				2
				16	Pre-Stack Motor BB	→	OFF	ON				1
				17	N.C	-	-	-	-	-	-	-
		CN202	SUB	1	24V	-	-	-	-	CN405	Registration Motor	7
				2	24V	-	-	-				6
				3	N.C	-	-	-				5
				4	Registration Motor A	→	OFF	ON				4
				5	Registration Motor AB	→	OFF	ON				3
				6	Registration Motor B	→	OFF	ON				2
				7	Registration Motor BB	→	OFF	ON				1
				8	N.C	-	-	-	-	-	-	-
				9	24V	-	-	-	-	CN406	ntrance Roller Motor	7
				10	24V	-	-	-				6
				11	N.C	-	-	-				5
				12	ntrance Roller Motor A	→	OFF	ON				4
				13	ntrance Roller Motor AB	→	OFF	ON				3
				14	ntrance Roller Motor B	→	OFF	ON				2
				15	ntrance Roller Motor BB	→	OFF	ON				1
69	D4345797	CN211	SUB	1	24V	-	-	-	-	T1	Interlock SW	-
				2	24VSW2	-	-	-		T2		-
		CN102	SUB	1	24V	-	-	-	-	T3	Interlock SW	-
				2	24VSW1	-	-	-		T4		-
71	D4495846	CN212	SUB	1	24VSW2	-	-	-	-	CN601	Punch	2
				2	GND1	-	-	-				1
72	D4345819	CN108	MAIN	1	Punch Movement Motor CLK	→	-	-	-	CN602	Punch	28
				2	Punch Movement Motor	→	ON	HOLD				27
				3	Punch Movement Motor	→	ENABLE	DISABLE				26
				4	Punch Movement Motor	→	CW	CCW				25
				5	Punch PWM	→	-	-				24
				6	Punch Drive Motor IN1	→	-	-				23
				7	Punch Drive Motor IN2	→	-	-				22
				8	Punch Switch Motor IN	→	-	-				21
				9	CIS Select 1	→	-	-				20
				10	CIS Select 2	→	-	-				19
				11	ADJ Mode	→	-	-				18
				12	LED PWM	→	-	-				17
				13	Comparator PWM	→	-	-				16
				14	P_edge Trigger	→	-	-				15
				15	P_edge	←	-	-				14
				16	Punch SW	←	2 Holes	3 Holes/4				13
				17	Punchout Hopper Full Sensor	←	No full	Full				12
				18	Punch Unit HP Sensor	←	No HP	HP				11
				19	Punch Blade HP Sensor	←	HP	No HP				10
				20	Punch RPS Sensor	←	-	-				9
				21	Punch Unit Detect Sensor	←	Detect	No detect				8
				22	Punch Type 1	←	-	-				7
				23	Punch Type 2	←	-	-				6
				24	Punch Vertical Registration	←	No detect	Detect				5
				25	GND2	-	-	-				4
				26	GND2	-	-	-				3
				27	5V	-	-	-				2
				28	5V	-	-	-				1

Harness No.	P/N	CN (FROM)			Signal Information				Relay Harness P/N	CN (To)		
		No.	From	Pin No.	Signal	Direction	L	H		No.	To	Pin No.
73	D4495820	CN605	Punch	1	5V	-	-	-	D4345848	CN902	-	3
				2	Punchout Hopper Full	←	No full	Full				2
				3	GND2	-	-	-				1
				11	GND2	-	-	-	-	CN906	Punch Unit HP Sensor	3
				12	Punch Unit HP Sensor	←	No HP	HP				2
				13	5V	-	-	-				1
				14	GND2	-	-	-	D4345824	CN907	-	3
				15	Punch Vertical	←	Not detec	Detect				2
				16	5V	-	-	-				1
74	D4495848	CN902	D4495820	1	5V	-	-	-	-	CN913	Punchout Hopper Full	3
				2	Punchout Hopper Full	←	No full	Full				2
				3	GND2	-	-	-				1
76	D4495824	CN907	D4495820	1	GND2	-	-	-	-	CN908	Punch Vertical Registrat	3
				2	Punch Vertical	←	Not detec	Detect				2
				3	5V	-	-	-				1
75	77 D4495849 D4495821	CN603	Punch	1	24VSW1	-	-	-	-	CN341	CIS Relay Board	9
				2	LED PWM	→	-	-				8
				3	5V	-	-	-				7
				4	CIS_CLK	→	-	-				6
				5	CIS_SYNC	→	-	-				5
				6	GND2	-	-	-				4
				7	CIS_D	←	-	-				3
				8	COMP_TH	-	-	-				2
				9	CIS_A	←	-	-				1
	76 D4495824	CN907	Punch	1	GND2	-	-	-	-	CN908	Punch Vertical Registrat	3
				2	Punch Vertical	←	Not detec	Detect				2
				3	5V	-	-	-				1
78	D4495825	CN341	CIS Relay Board	2	24VSW1	-	-	-	-	CN909	CIS	7
				3	LED_PWM	-	-	-				6
				4	5V	-	-	-				5
				5	CIS_CLK	-	-	-				4
				6	CIS_SYNC	-	-	-				3
				7	GND2	-	-	-				2
				8	CIS_AD	-	-	-				1
79	D4495826	CN604	Punch	1	24V	-	-	-	-	CN910	Punch Movement Motor	3
				2	24V	-	-	-				9
				3	N.C	-	-	-				-
				4	A	→	OFF	ON				1
				5	XB	→	OFF	ON				5
				6	B	→	OFF	ON				7
				7	XB	→	OFF	ON				11
				8	FG	-	-	-	-	T1	-	-
				9	Punch Drive Motor M-	→	OFF	ON	-	CN911	Punch Drive Motor	2
				10	N.C	-	-	-				-
				11	Punch Drive Motor M+	→	OFF	ON				1
				12	Punch Switch Motor M-	→	OFF	ON	-	CN912	Punch Switch Motor	4
				13	Punch Switch Motor M+	→	OFF	ON				3
				14	T1	-	-	-				2
				15	T2	-	-	-				1
		CN607	Punch	1	GND2	-	-	-	D4495823	CN903	-	6
				2	Punch Blade HP Senso	←	HP	No HP				5
				3	5V	-	-	-				4
				4	GND2	-	-	-				3
				5	Punch RPS Sensor	←	-	-				2
				6	5V	-	-	-				1
80	D4495823	CN903	D4495826	1	5V	-	-	-	-	CN904	Punch RPS Sensor	3
				2	Punch RPS Sensor	←	-	-				2
				3	GND2	-	-	-				1
				4	5V	-	-	-	-	CN905	Punch Blade HP	3
				5	Punch Blade HP Senso	←	HP	No HP				2
				6	GND2	-	-	-				1