4

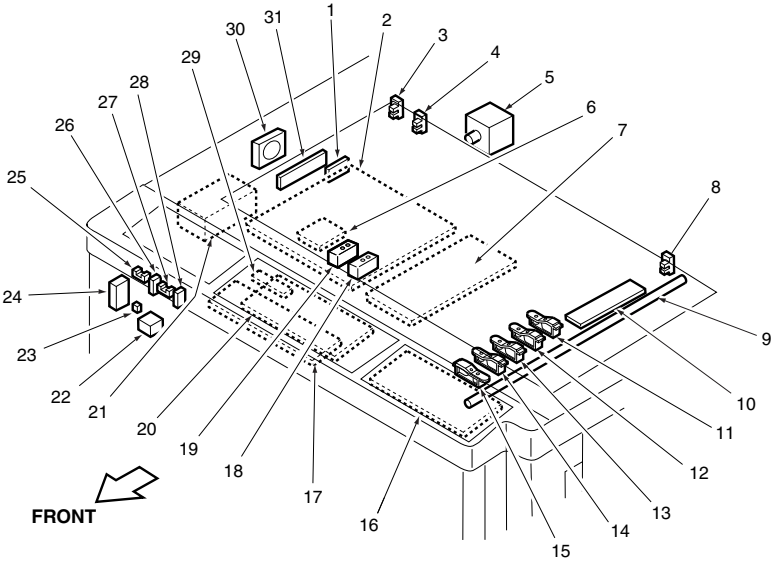
ELECTRIC PARTS LIST

4 ELECTRIC PARTS LIST

PARTS LAYOUT DRAWING

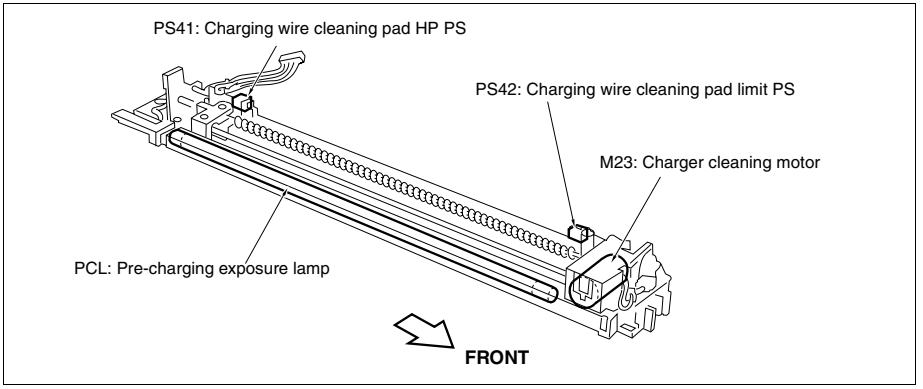
[1] Di850 Parts Layout Drawing

1. Read Section/Operational Section

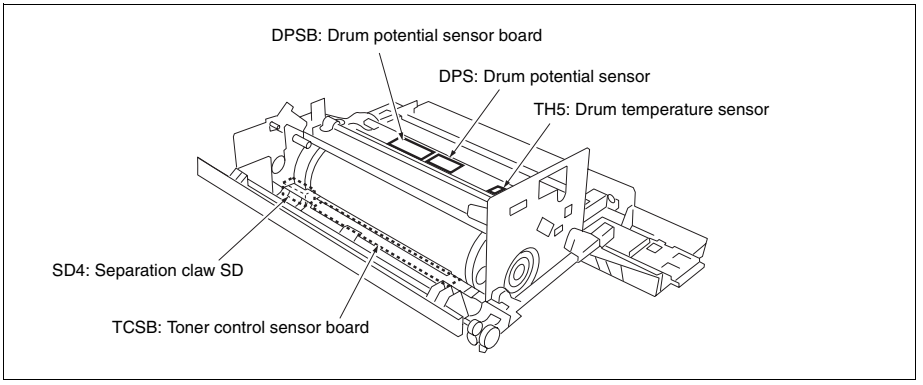


1. OP IFB : Optional I/F board
2. ICB : Image control board
3. PS7 : ADF brake PS
4. PS5 : Scanner HP PS
5. M13 : Scanner drive motor
6. MB : Memory board
7. ICB IFB : ICB I/F board
8. PS6 : Original HP PS
9. L1 : Exposure lamp
10. L1 INVB : L1 Inverter
11. PS68 : APS sensor 7
12. PS66 : APS sensor 5
13. PS64 : APS sensor 3
14. PS67 : APS sensor 6
15. PS65 : APS sensor 4
16. OB2 : Operation board 2
17. OB1 : Operation board 1
18. PS62 : APS sensor 1
19. PS63 : APS sensor 2
20. LCD : Indicator board
21. HDD unit
22. C(T) : Total counter
23. SW2 : Reset switch
24. SW1 : Main switch
25. PS25 : Front door open/close detection PS2
26. MS2 : Interlock 2
27. PS24 : Front door open/close detection PS1
28. MS1 : Interlock 1
29. FM7 : Scanner cooling fan
30. OB INVB : OB Inverter board
31. ADB : A/D converter board

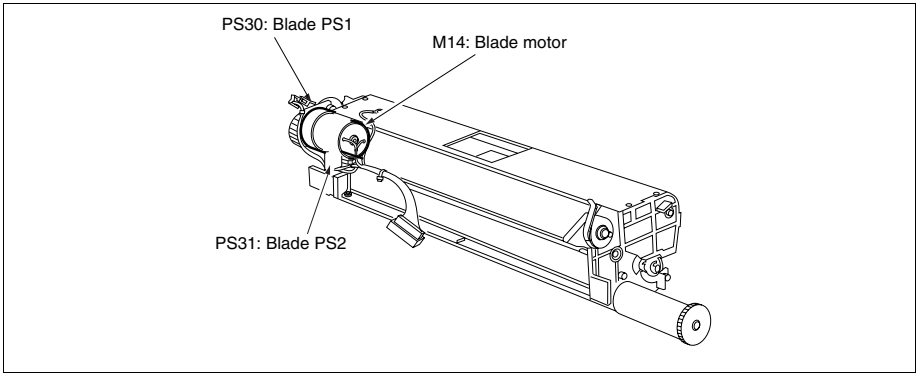
2. Charging Corona Wire Uint



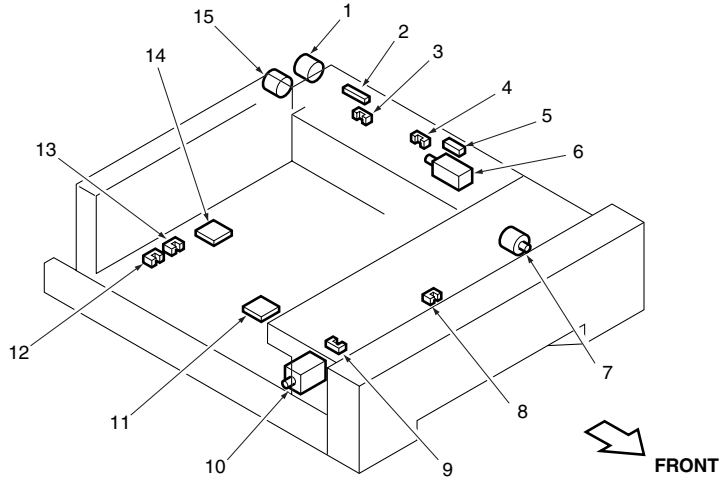
3. Drum Unit



4. Cleanimg Unit

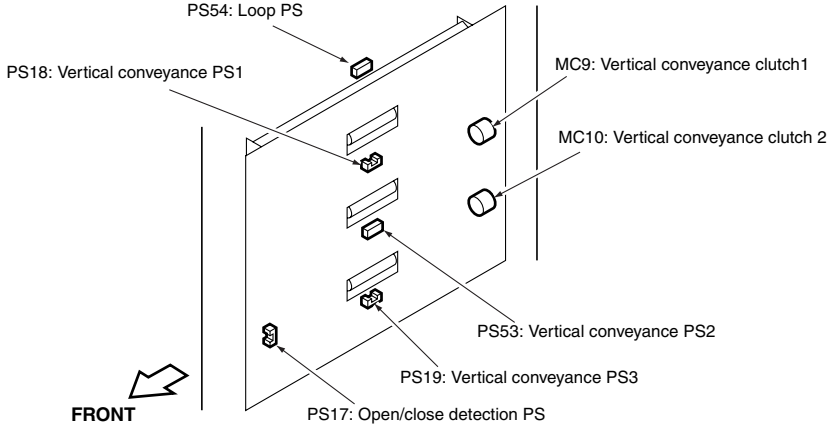


5. Tray 1, 2, 3

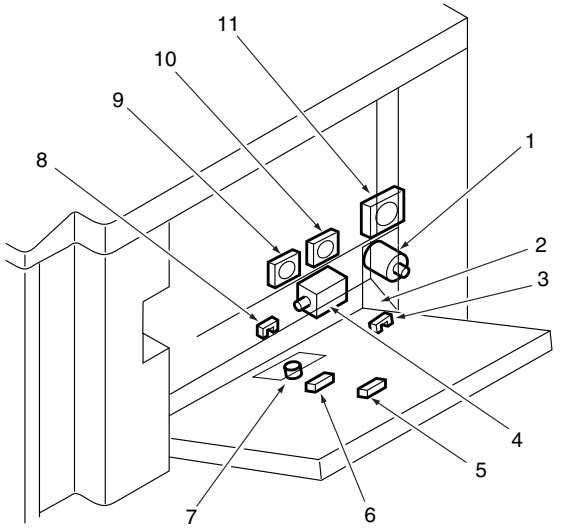


1. MC4/6/8 : Pre-registration clutch 1/2/3
2. PS48/50/52 : Paper pre-registration PS 1/2/3
3. PS26/27/28 : No paper PS 1/2/3
4. PS20/21/22 : Tray upper limit PS 1/2/3
5. PS47/49/51 : Paper feed PS 1/2/3
6. SD8/9/10 : Pick up SD 1/2/3
7. M19/20/21 : Up drive motor 1/2/3
8. PS14/15/16 : Handle release PS 1/2/3
9. PS34/37/40 : Remaining paper detection PS 1/2/3
10. SD5/6/7 : Lock Solenoid 1/2/3
11. VR1/2/3 : Paper size detection VR 1/2/3
12. PS32/35/38 : Paper size detection PS1-1/2/3
13. PS33/36/39 : Paper size detection PS2-1/2/3
14. HTR2/3/4 : Tray heater 1/2/3
15. MC3/5/7 : Feed clutch 1/2/3

6. Vertical Conveyance Section

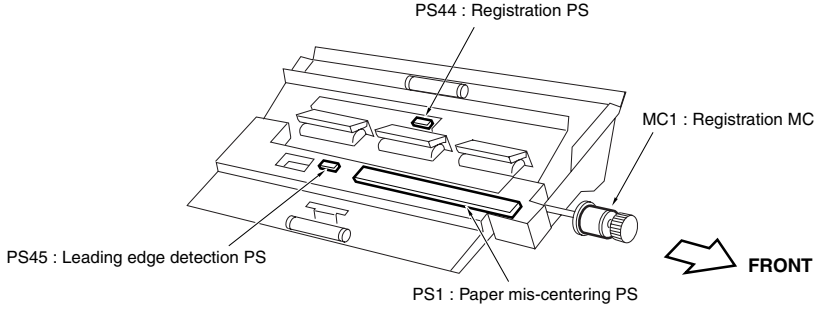


7. By-pass Feed Section

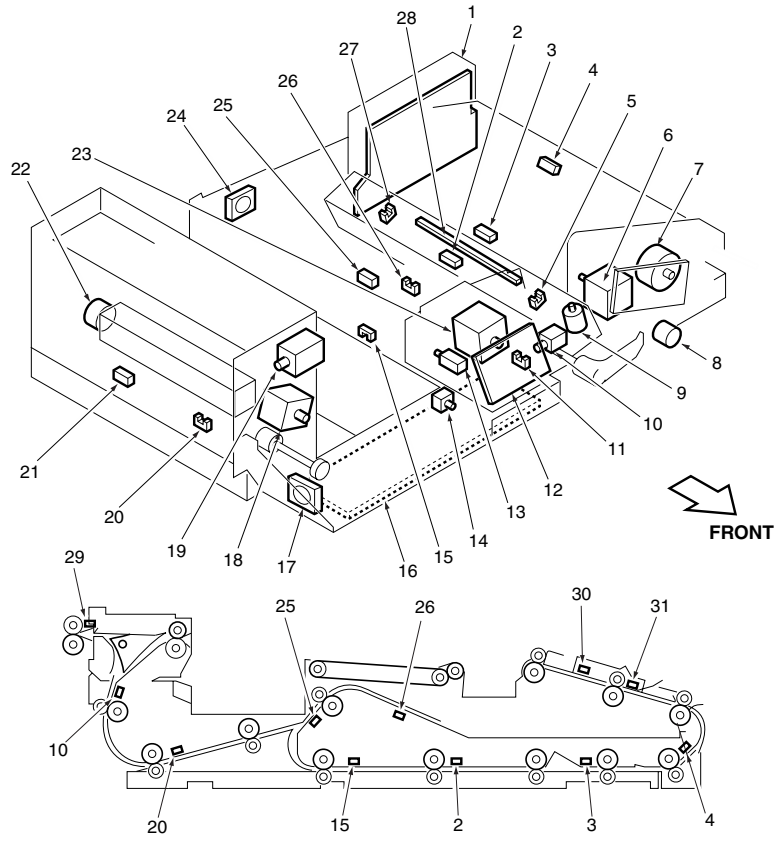


1. M22 : Up/down motor (by-pass)
2. PS43 : Tray lower limit PS (by-pass)
3. PS29 : No paper PS (by-pass)
4. SD11 : Pick up SD (by-pass)
5. PS56 : Paper size PS2 (by-pass)
6. PS55 : Paper size PS1 (by-pass)
7. VR4 : Paper size detection VR (by-pass)
8. PS23 : Tray upper limit PS (by-pass)
9. FM5 : Write section cooling fan 1
10. FM8 : Write section cooling fan 2
11. FM12 : Main body cooling fan 4

8. Second Paper Feed Section

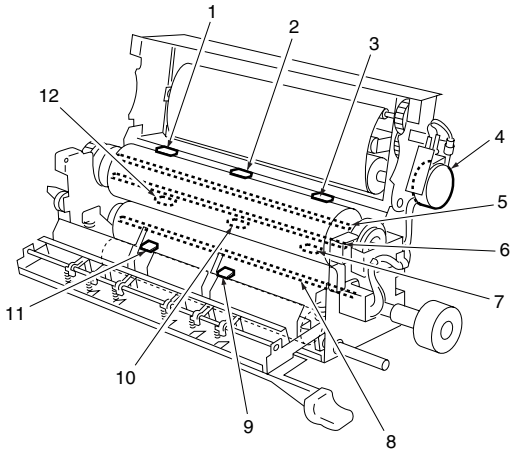


9. ADU Unit



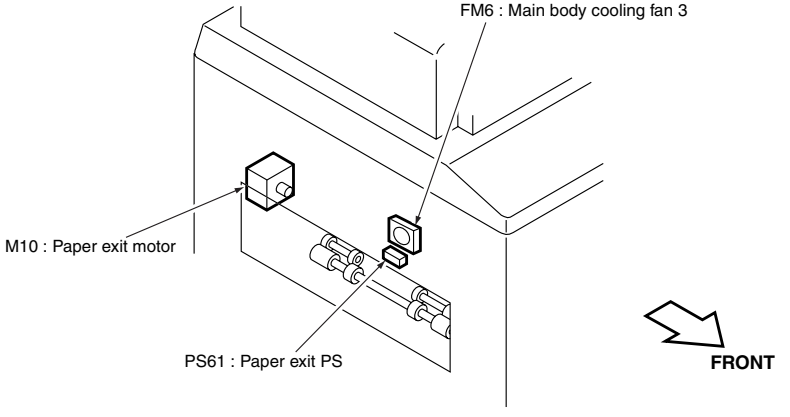
1. HV2 : High voltage unit 2
2. PS59 : ADU deceleration PS
3. PS60 : ADU Pre-registration PS
4. PS46 : ADU exit PS
5. PS11 : Transfer/Separation wire cleaning pad HP PS
6. M9 : Transfer motor
7. M12 : Registration motor
8. MC2 : ADU Pre-registration MC
9. M18 : Transfer/Separation cleaning motor
10. SD1 : ADU lock SD
11. JAMIB : Jam indicator board
12. PS10 : ADU handle release PS
13. SD3 : Fixing guide SD
14. M8 : ADU conveyance motor
15. PS9 : ADU paper conveyance PS
16. ADUSDB : ADU stand drive board
17. FM10 : ADU cooling fan 1
18. M5 : Paper reverse/exit motor
19. SD2 : Paper reverse gate SD
20. PS8 : Paper reverse/ conveyance PS
21. PS57 : paper reverse/PS
22. FM1 : Paper exit fan
23. M7 : ADU reverse motor
24. FM11 : ADU cooling fan 2
25. PS58 : ADU paper reverse PS
26. PS13 : ADU No paper detection PS
27. PS12 : Transfer/separation wire cleaning pad limit PS
28. TSL : Transfer synchronization lamp
29. PS61 : Paper exit PS
30. PS45 : Copy paper leading edge detection PS
31. PS44 : Registration PS

10. Fixing Unit

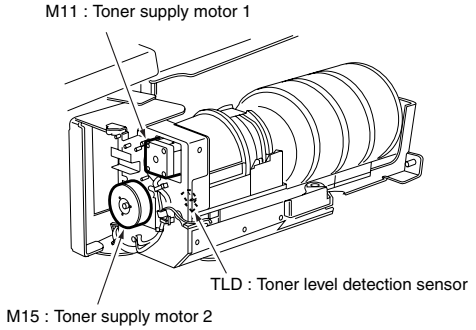


1. TH2 : Fixing temperature sensor 2
2. TH1 : Fixing temperature sensor 1
3. TS1 : Thermostat (upper)
4. M16 : Web drive motor
5. L2 : Fixing heater lamp 1
6. L3 : Fixing heater lamp 2
7. L4 : Fixing heater lamp 3
8. TS2 : Thermostat 2 (lower)
9. PS2 : Fixing exit PS
10. TH3 : Fixing temperature sensor 3
11. PS3 : Fixing jam PS
12. TH4 : Fixing temperature sensor 4

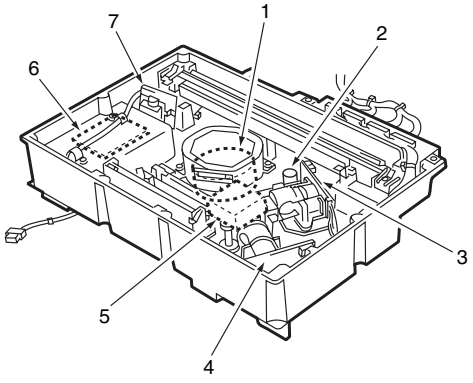
11. Paper Exit Section



12. Toner Supply Unit

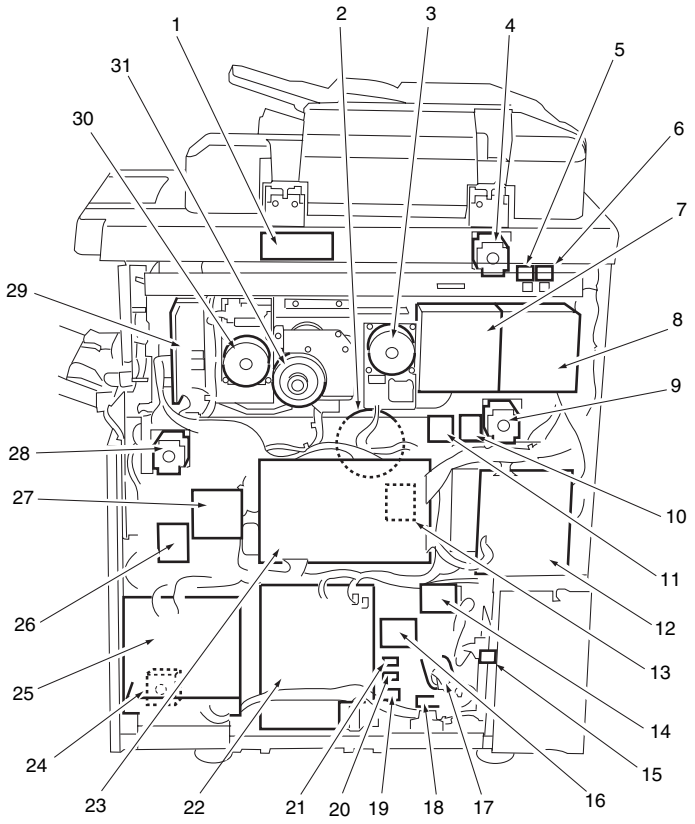


13. Write Section



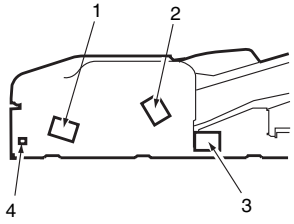
1. M17 : Polygon motor
2. M24 : Laser correction motor
3. LDB2 : Laser driver board 2
4. LDB1 : Laser driver board 1
5. FM9 : Polygon cooling fan
6. PMDB : Polygon motor drive board
7. INDXSB : Index sensor board

14. Rear Side of the Main Body

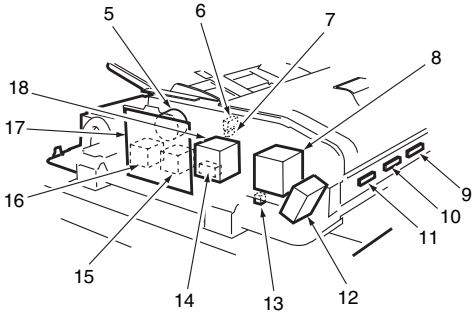


1. SCDB : Scanner drive board
2. FM2 : Developing section fan
3. M1 : Main motor
4. M13 : Scanner drive motor
5. PRB : Printer relay board
6. LAN IFB : LAN I/F board
7. FM4 : Main unit cooling fan 2
8. FM3 : Main unit cooling fan 1
9. M10 : Paper exit motor
10. TRC1 :Triac 1
11. TRC2 : Triac 2
12. ACDB : AC drive boardTransformer 2
13. NF : Noise filter 2
14. Transformer 2
15. SW3 : Tray heater switch
16. Transformer 1
17. NF : Noise filter
18. CBR1 : Circuit breaker 1
19. RL1 : Main relay
20. RL2 : AC input relay for DCPS2
21. RL3 : AC input relay for IP
22. DCPS2 : DC power supply unit 2
23. PRCB : Printer control board
24. M4 : Paper feed motor
25. DCPS1 : DC power supply unit 1
26. DCPS3 : DC power supply unit 3
27. PSMB : Power supply management board
28. M6 : Loop roller motor
29. HV1 : High voltage unit 1
30. M3 : Developing motor
31. M2 : Drum motor

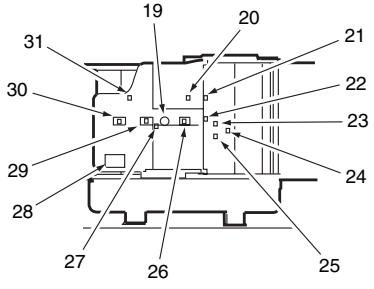
[2] EDH-5 Parts Layout Drawing



1. SD301 : Flapper drive SD
2. SD302 : Pressure roller release SD
3. SD303 : Original exit gate SD
4. PS301 : RADF open/close detection PS

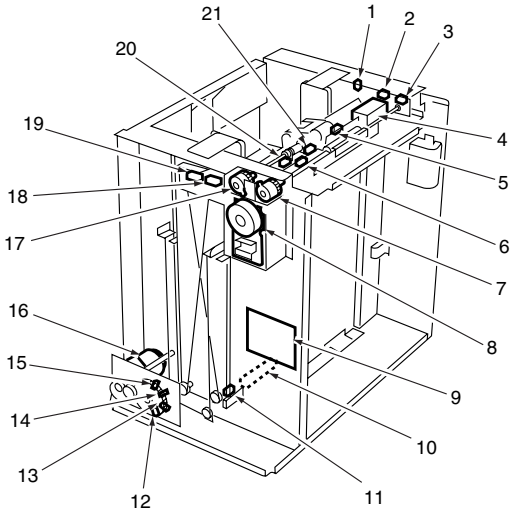


5. M303 : Tray up/down drive motor
6. MS301 : Cover open/close MS
7. PS316 : Tray lower limit detection PS
8. M301 : Original conveyance motor
9. PS311 : Original skew detection PS 1
10. PS308 : Original conveyance detection PS
11. PS312 : Original skew detection PS2
12. FM301 : ADF fan
13. PS317 : APS timing PS
14. SD304 : SDF switching SD
15. M304 : Original exit motor 1
16. M305 : Original exit motor 2
17. DFCB : RADF control board
18. M302 : Original feed motor



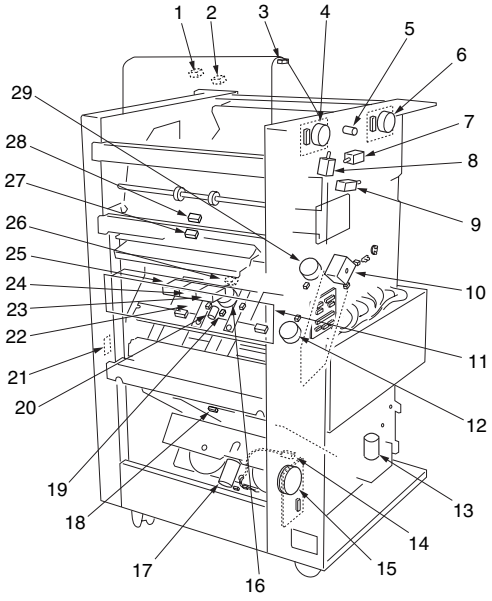
19. VR301 : Original size detection VR
20. PS304 : Reverse jam detection PS
21. PS309 : Original reversal detection PS
22. PS307 : Original exit PS1
23. PS315 : Tray upper limit detection PS
24. PS306 : Original registration detection PS
25. PS305 : No original detection PS
26. PS310 : Original count detection PS
27. PS314 : Original exit PS2
28. PTBD : Tray board
29. PS303 : Original size detection PS2
30. PS302 : Original size detection PS1
31. PS313 : Original exit reverse detection PS

[3] C-403/C-404 Parts Layout Drawing

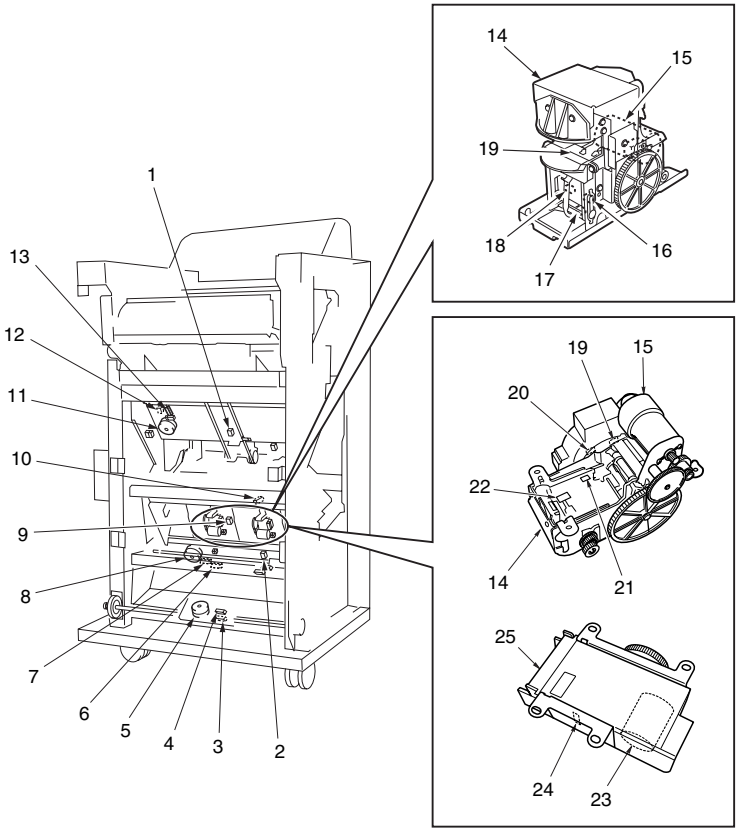


1. SW100 : LT tray down drive switch
2. MS101 : LT interlock MS1
3. PS110 : LT jam access door open/close detection PS
4. SD100 : LT 1st paper feed SD
5. PS109 : LT upper limit detection PS
6. PS106 : LT feed PS
7. MC102 : LT 1st paper feed MC
8. M101 : LT paper feed motor
9. LTDB : LT drive board
10. HTR101 : LT internal heater
11. PS101 : LT lower limit detection PS
12. PS105 : LT remaining paper detection PS4
13. PS104 : LT remaining paper detection PS3
14. PS103 : LT remaining paper detection PS2
15. PS102 : LT remaining paper detection PS1
16. M100 : LT up/down motor
17. MC101 :LT feed drive MC
18. PS100 : LT top cover open/close detection PS
19. MS102 : LT interlock MS2
20. PS107 : LT pre-registration PS
21. PS108 : LT No paper detection PS

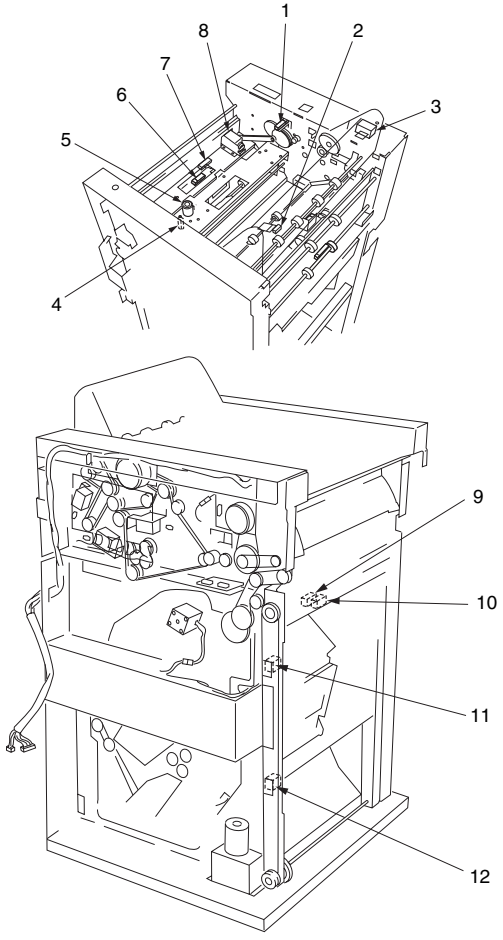
[4] FN-7/FN-115 Parts Layout Drawing



1. PS1 : Sub-tray paper exit PS
2. PS50 : Sub-tray full PS
3. PS207 : Paper exit-cover open/close detection PS
4. M1 : FNS conveyance motor
5. M8 : Paper exit-opening motor
6. M7 : Paper exit-roller motor
7. SD1 : Gate solenoid
8. SD2 : Sub-tray paper exit solenoid
9. SD5 : By-pass solenoid
10. M13 : Stacker entrance motor
11. PS30 :Clincher HP PS/R (FN-7 only)
12. M4 : Stapler rotation motor
13. M3 : Tray up-down motor
14. PS22 : Folding-knife HP PS (FN-7 only)
15. M20 : Folding conveyance motor (FN-7 only)
16. M14 : Stapling and folding stopper motor (FN-7 only)
17. M19 : Folding-knife motor (FN-7 only)
18. PS26 : Folding passage PS/2 (FN-7 only)
19. PS21 : Stapling and folding stopper-release-motor HP PS (FN-7 only)
20. M17 : Stapling and folding stopper release motor (FN-7 only)
21. MS1 : Interlock
22. PS33 : Clincher HP PS/F (FN-7 only)
23. FM3 : Cooling FAN 3
24. FM2 : Cooling FAN 2
25. FM1 : Cooling FAN 1
26. PS23 : Stapling and folding stopper HP PS (FN-7 only)
27. PS13 : Entrance paper detection PS
28. PS4 : FIN entrance passage PS
29. M11 : Stapler-movement motor

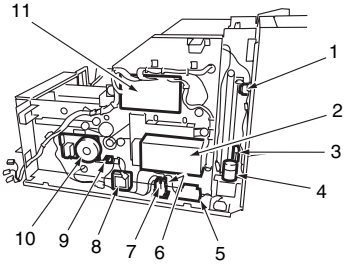


1. PS20 : Stacker no-paper detection PS
2. PS24 : Alignment-plate/lower HP PS (FN-7 only)
3. PS28 : Folding passage PS/1 (FN-7 only)
4. PS27 : Folding stopper HP PS (FN-7 only)
5. M18 : Folding stopper motor (FN-7 only)
6. PS29 : Folding full up PS (FN-7 only)
7. PS25 : Folding paper exit PS (FN-7 only)
8. M15 : Alignment-plate/lower motor (FN-7 only)
9. PS14 : Stapler rotation HP PS
10. PS11 : Stapler movement HP PS
11. M5 : Alignment-plate/ upper motor
12. PS9 : Paper exit belt HP PS
13. PS8 : Alignment-plate/upper HP PS
14. Stapler (F, R)
15. M22 : Stapler motor/R
    M24 : Stapler motor/F
16. PS36 : Cartridge detection PS/F
    PS39 : Cartridge detection PS/R
17. PS38 : Stapler ready PS/F
    PS41 : Stapler ready PS/R
18. PS37 : Staple detection PS/F
    PS40 : Staple detection PS/R
19. PS31 : Stapler HP PS/R
    PS34 : Stapler HP PS/F
20. PS32 : Clincher timing PS/R
    PS35 : Clincher timing PS/F
21. SW1 : Cartridge detection SW/R
    SW3 : Cartridge detection SW/F
22. SW2 : Staple detection SW/R
    SW4 : Staple detection SW/F
23. M21 : Clincher motor/R
    M23 : Clincher motor/F
24. PS30 : Clincher HP PS/R
    PS33 :Clincher HP PS/F
25. Clincher (F, R)

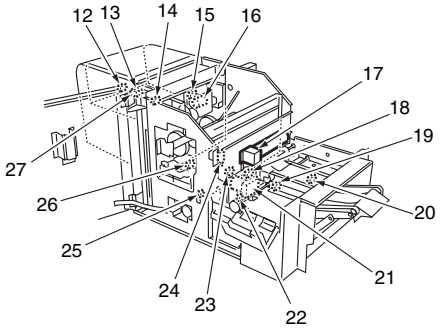


1. PS12 : Paper exit-opening PS
2. PS5 : Stacker conveyance passage PS
3. SD6 : Sub-tray deceleration solenoid
4. PS18 : Roller-shift HP PS
5. M2 : Roller-shift motor
6. PS10 : Paper exit-2 PS
7. PS6 : Paper exit-1 PS
8. SD4 : Paper exit-opening solenoid
9. PS7 : Staple paper exit upper limit PS
10. PS2 : Tray upper-limit PS
11. PS15 : Tray no-paper detection PS
12. PS3 : Tray lower-limit PS

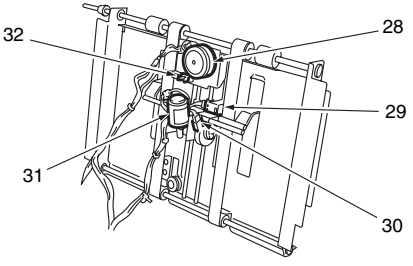
[5] TMG-2 Parts Layout Drawing



1. PS110 : Upper limit PS
2. DCPS : DC power supply unit
3. PS111 : Lower limit PS
4. M106 : Holder motor
5. CBR : Circuit breaker
6. RL1 : Relay 1
7. RL2 : Relay 2
8. Coil
9. PS107 : Scraps box detection PS
10. M101 : Conveyance motor
11. TUDB : TU drive board

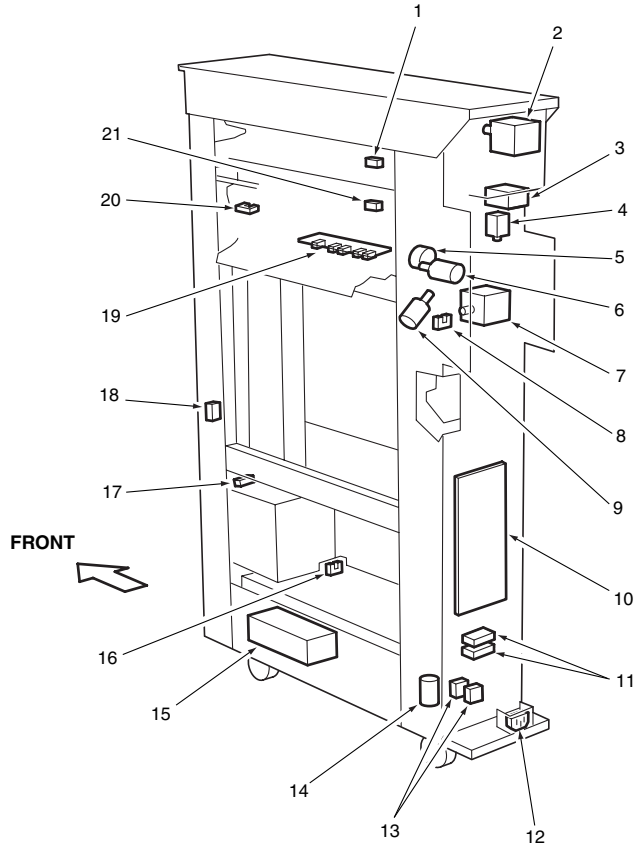


12. PS114 : Stacker door PS
13. MS4 : Stacker MS4
14. PS113 : Stacker full PS
15. PS112 : Pusher PS
16. M107 : Pusher motor
17. M108 : Scraps removal motor
18. LED101 : Scraps full LED
19. PS109 : Scraps full PS
20. PS101 : Entrance PS
21. M102 : Trimmer motor
22. PS106 : Trimmer HP PS
23. PS105 : Press HP PS
24. M105 : Press motor
25. MS2 : Front door MS
26. PS108 : Exit PS
27. MS3 : Stacker MS3



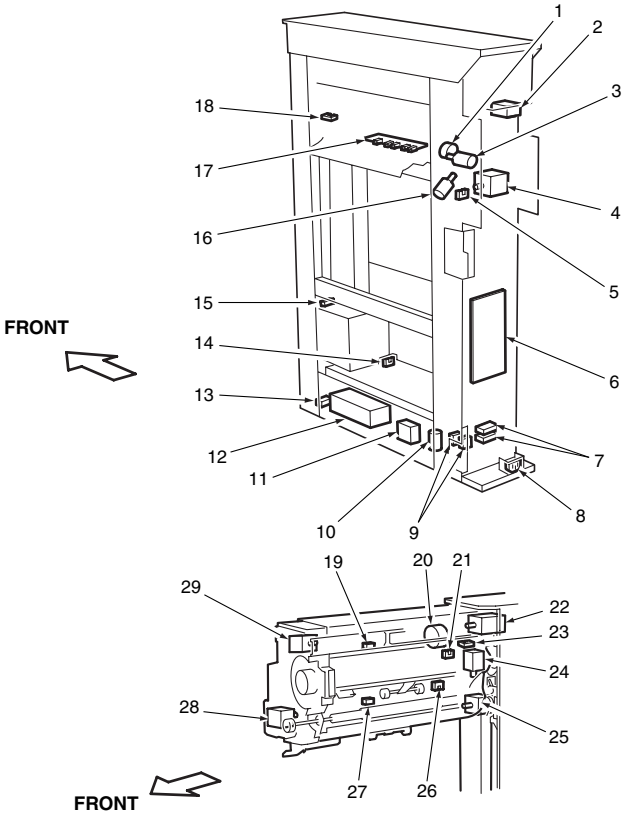
28. M103 : Stopper motor
29. PS102 : Conveyance PS
30. PS104 : Stopper release HP PS
31. M104 : Stopper release motor
32. PS103 : Stopper HP PS

[6] PK-3 Parts Layout Drawing



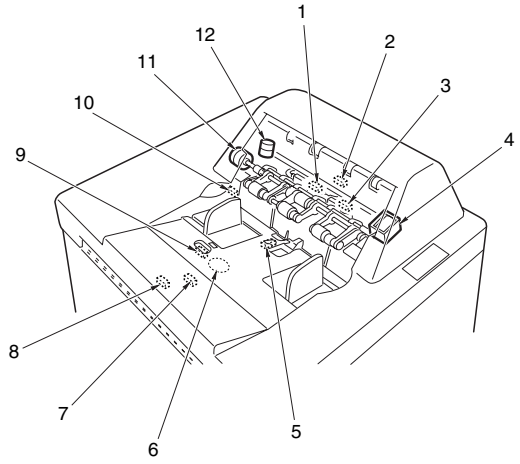
1. PS1 : Passage PS
2. M1 : Main motor
3. M10 : Main motor cooling fan
4. SD1 : Gate solenoid
5. MC1 : Punch clutch
6. M4 : Punch motor
7. M5 : Punch shift motor
8. PS4 : Punch shift HP PS
9. M7 : Punch scraps conveyance motor
10. PUCB : PU Control board
11. CBR : Circuit breakerInlet
12. Inlet
13. RELAY : Power supply relay
14. NF : Noise filter
15. DCPS : DC power supply
16. PS6 : Punch scraps box detect PS
17. PS7 : Punch scraps full PS
18. Front door MS
19. Paper edge PS
20. PS5 : Punch HP PS
21. PS8 : Exit PS

[7] ZK-2 Parts Layout Drawing



1. MC1 : Punch clutch
2. M10 : Conveyance motor cooling fan
3. M4 : Punch motor
4. M5 : Punch shift motor
5. PS4 : Puncher HP PS
6. PZCB : PZ Control board
7. CBR : Circuit breaker
8. Inlet
9. RELAY : Power source relay
10. NF : Noise filter
11. COIL : Coil
12. DCPS : DC power unit
13. MS1 : Front door MS
14. PS6 : Punch scraps box PS
15. PS7 : Punch scraps full PS
16. M7 : Punch scraps conveyance motor
17. Paper edge PS
18. PS5 : Punch HP PS
19. PS1 : Passage PS
20. M2 : 1st stopper motor
21. PS3 : 1st stopper HP PS
22. M6 : Conveyance motor
23. PS9 : Conveyance encoder PS
24. SD1 : Gate SD/L
25. M1 : Registration motor
26. PS2 : 2nd stopper HP PS
27. PS8 : Exit PS
28. M3 : 2nd stopper motor
29. SD2 : Gate SD/U

[8] Cover Inserter C Parts Layout Drawing

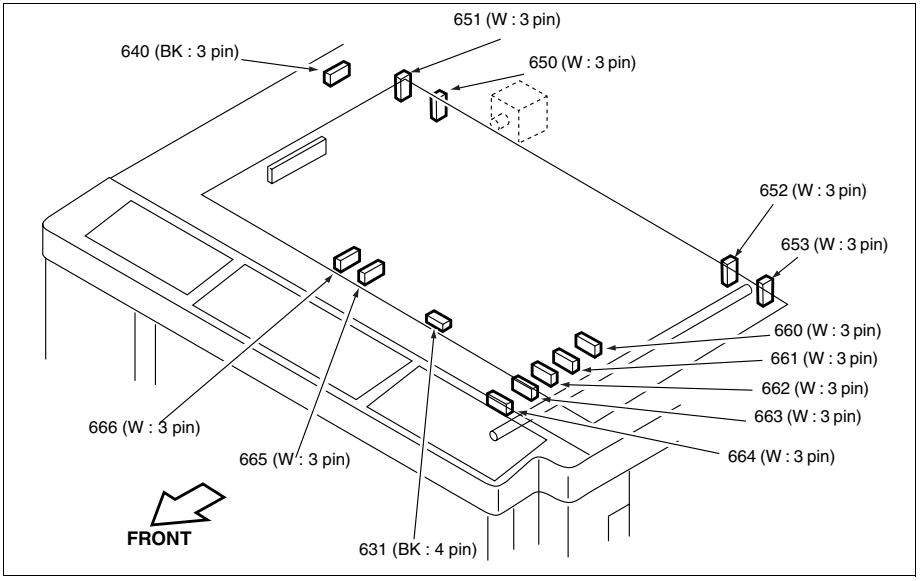


1. PS202 : No-sheet PS
2. PS201 : Sheet passage PS
3. PS204 : Sheet-tray upper-limit PS
4. SD201 : Paper-feed solenoid
5. PS208 : Sheet set PS
6. VR1 : Sheet-width VR
7. PS205 : Sheet-size PS (small)
8. PS206 : Sheet-size PS (large)
9. PS209 : Pre no-paper PS
10. PS203 : Sheet-tray lower-limit PS
11. MC201 : Paper-feed clutch
12. M201 : Sheet-tray motor

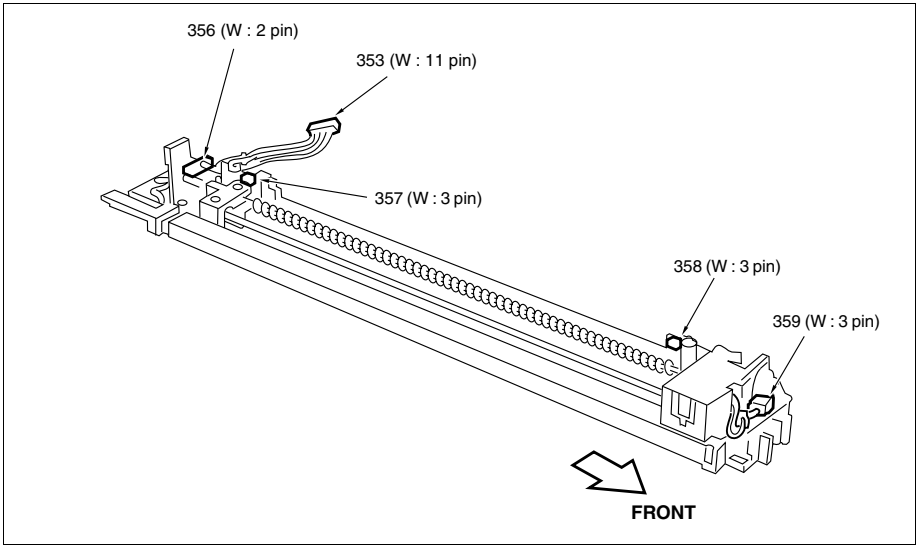
CONNECTOR LAYOUT DRAWING

[1] Di850 Connector Layout Drawing

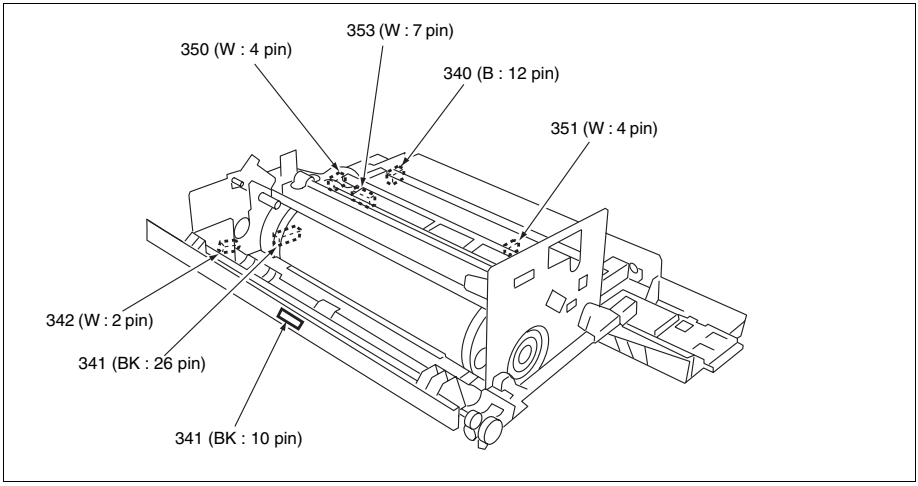
1. Read Section



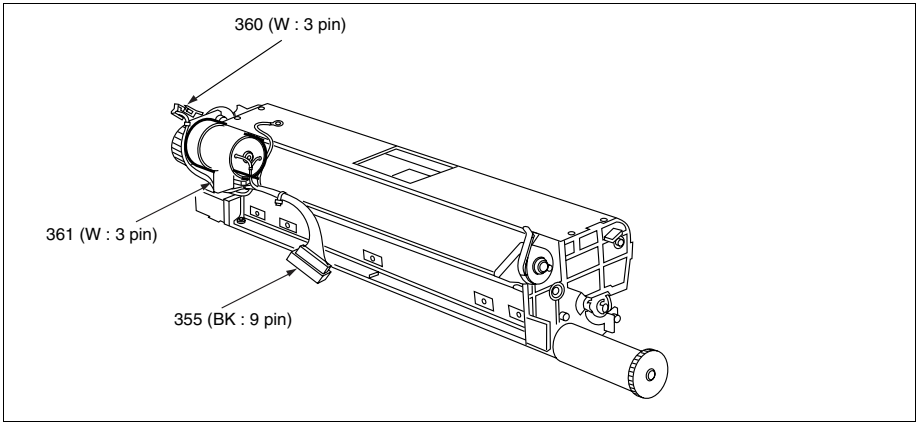
2. Charging Corona Wire Unit



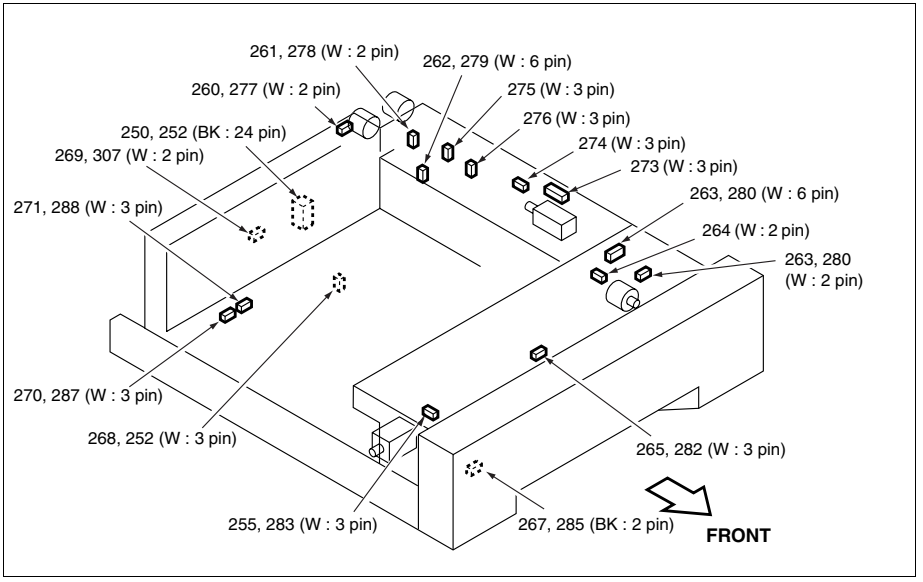
3. Drum Unit



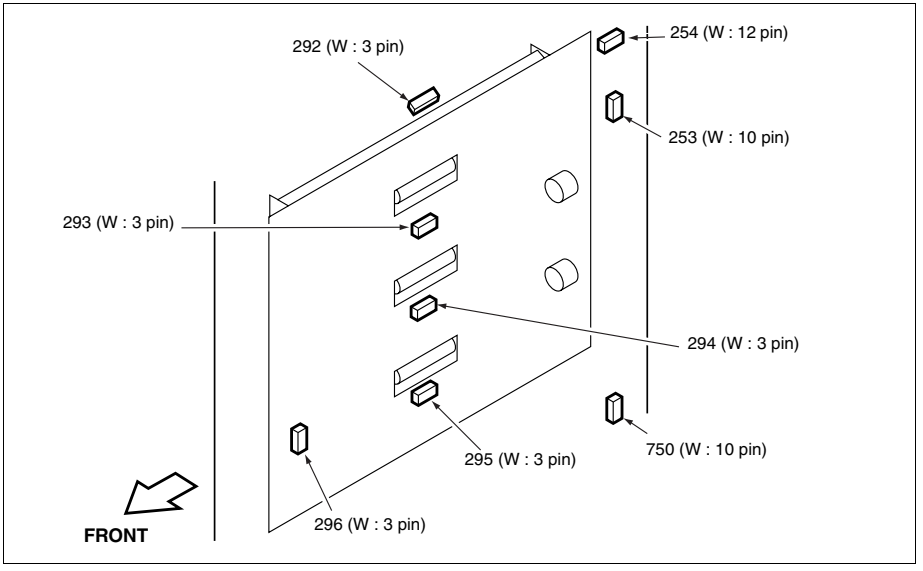
4. Cleaning Unit



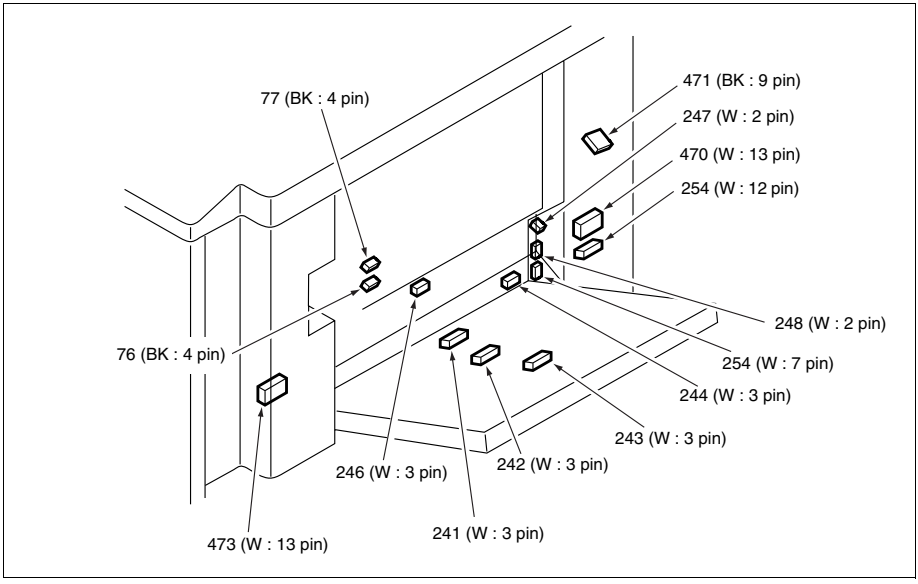
5. Tray 1,2,3



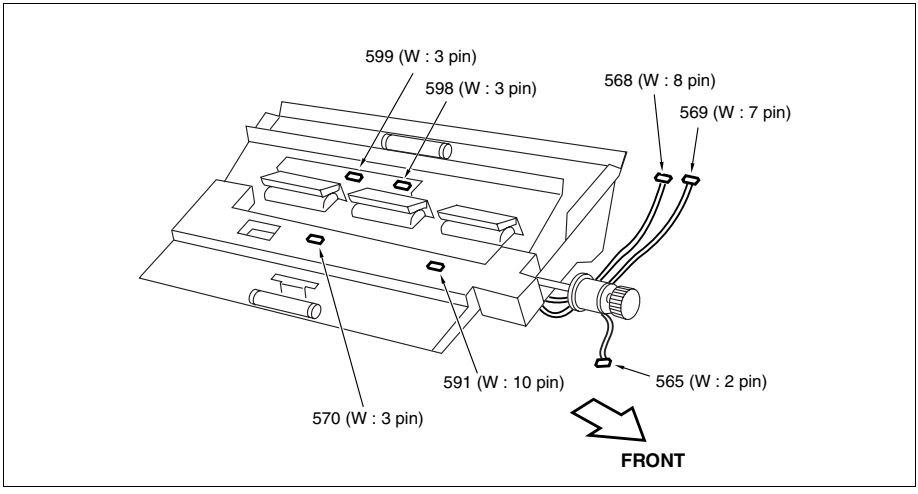
6. Vertical Conveyance Section



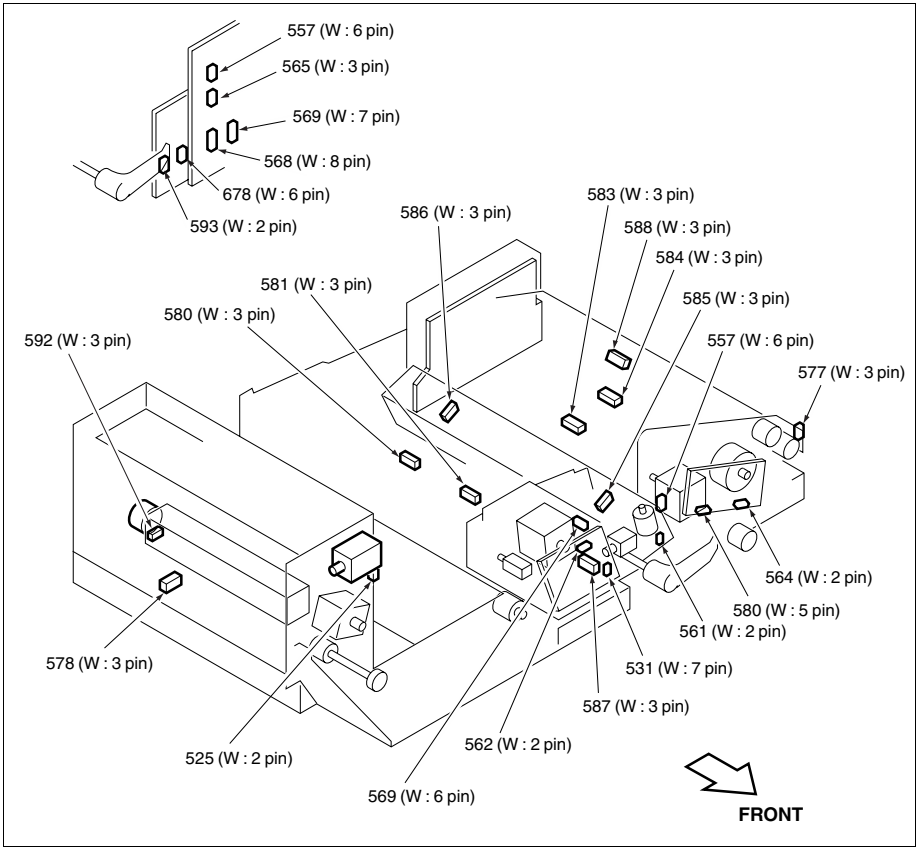
7. By-pass Feed Section



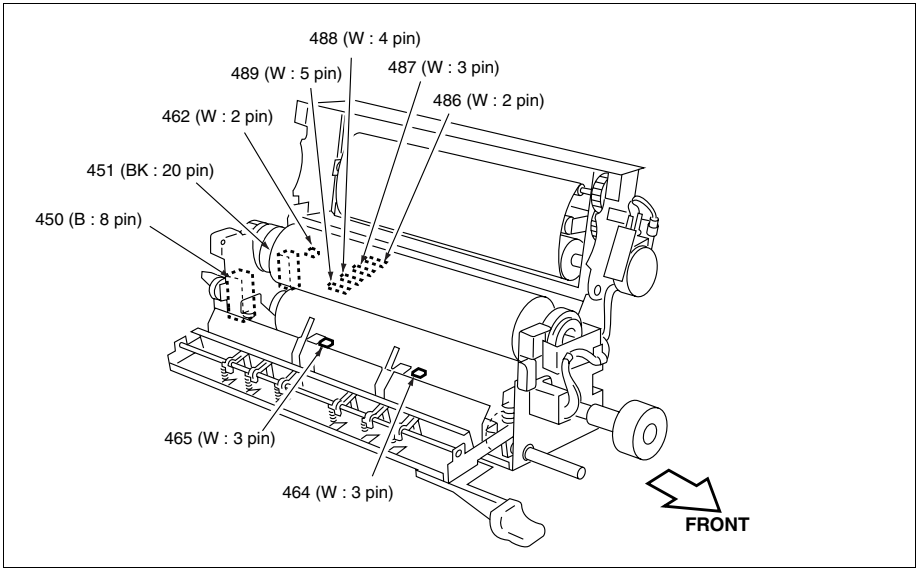
8. Second Paper Feed Section



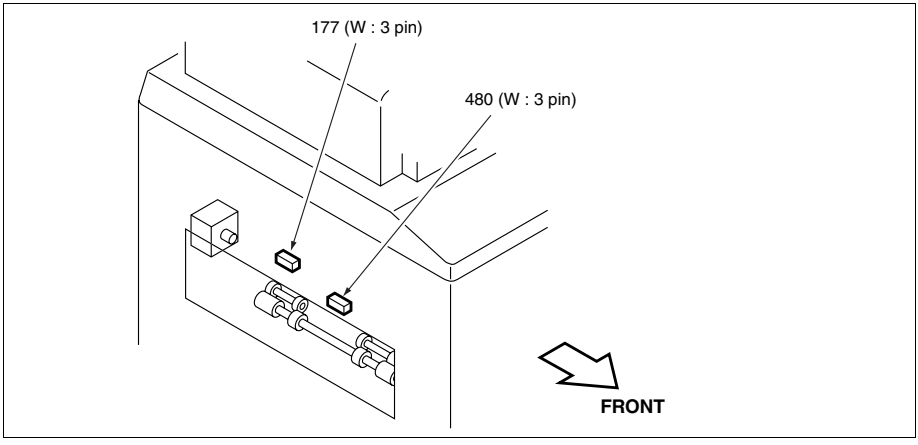
9. ADU unit


557 (W : 6 pin)
565 (W : 3 pin)
569 (W : 7 pin)
568 (W : 8 pin)
678 (W : 6 pin)
593 (W : 2 pin)
586 (W : 3 pin)
583 (W : 3 pin)
588 (W : 3 pin)
584 (W : 3 pin)
585 (W : 3 pin)
581 (W : 3 pin)
580 (W : 3 pin)
592 (W : 3 pin)
557 (W : 6 pin)
577 (W : 3 pin)
564 (W : 2 pin)
580 (W : 5 pin)
561 (W : 2 pin)
531 (W : 7 pin)
578 (W : 3 pin)
587 (W : 3 pin)
562 (W : 2 pin)
525 (W : 2 pin)
569 (W : 6 pin)
FRONT

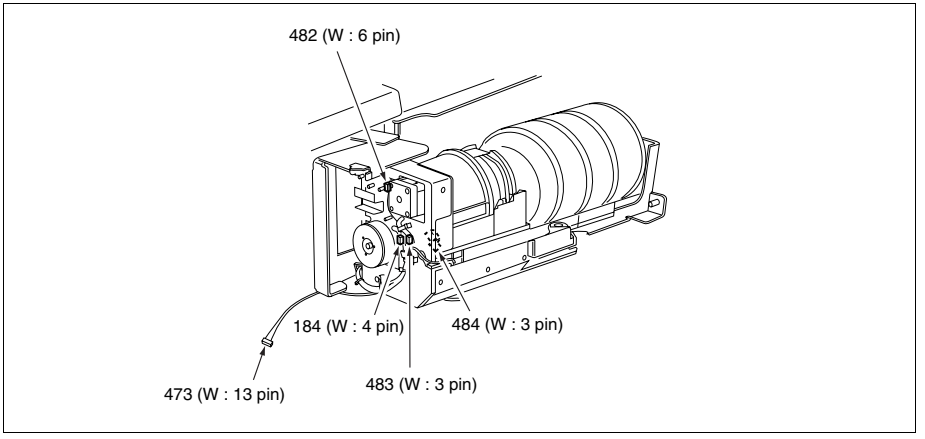
10. Fixing Unit



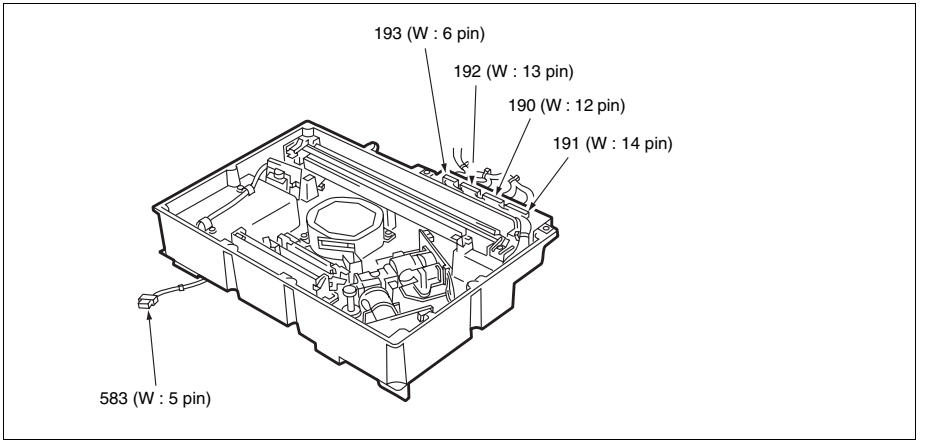
11. Paper Exit Section



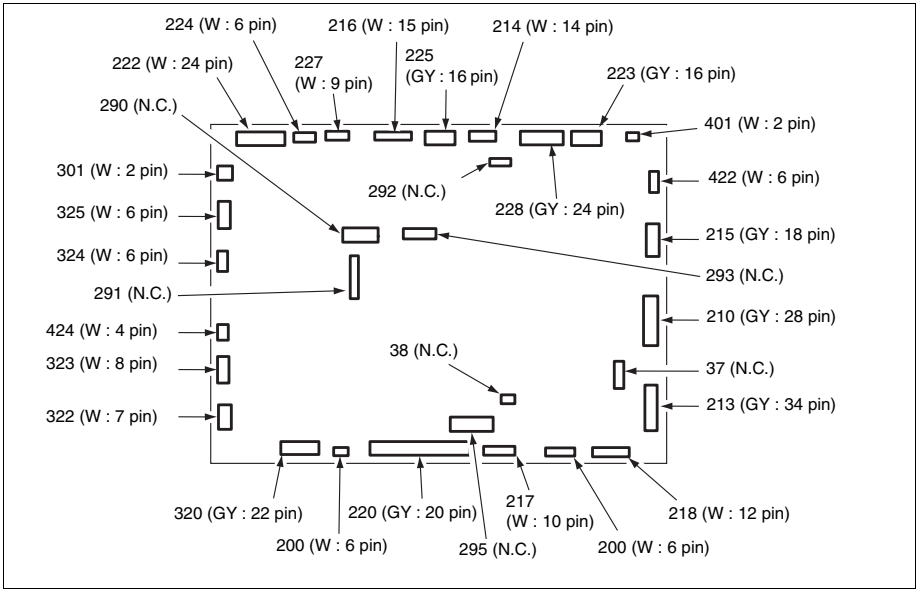
12. Toner Supply Unit



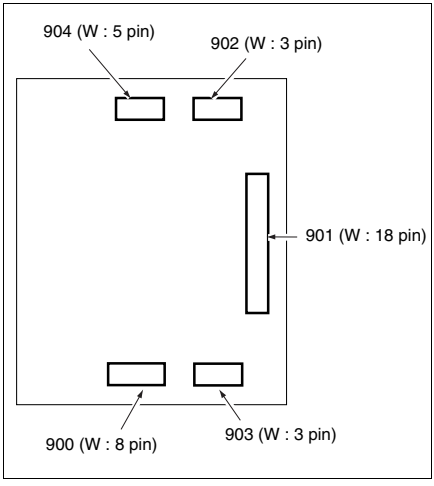
13. Write Section



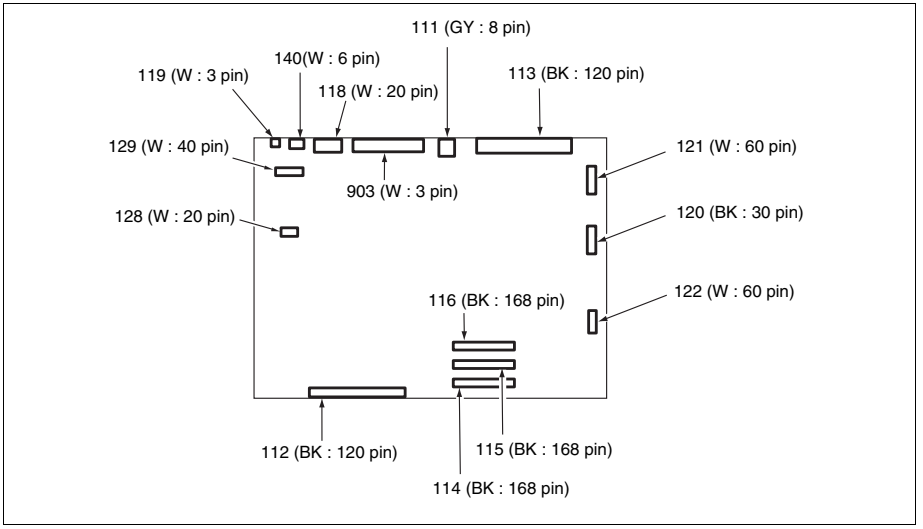
14. Printer Control Board



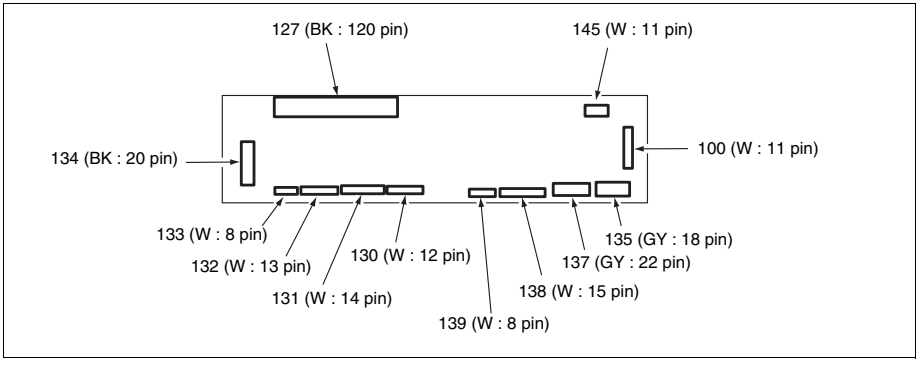
15. Power Supply Management Board



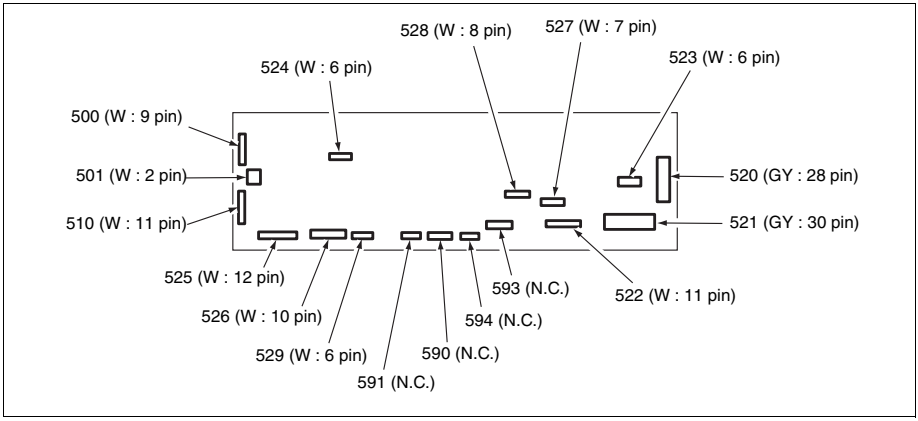
16. Image Control Board



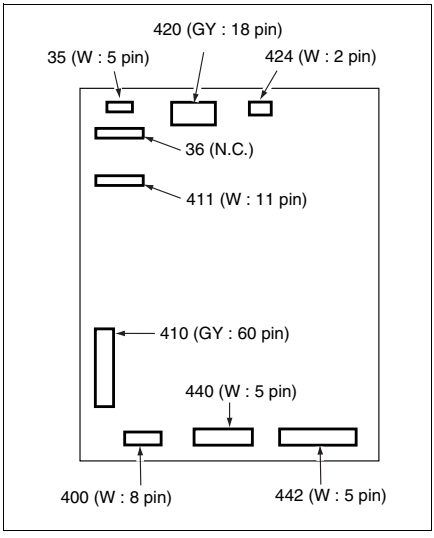
17. ICB I/F Board



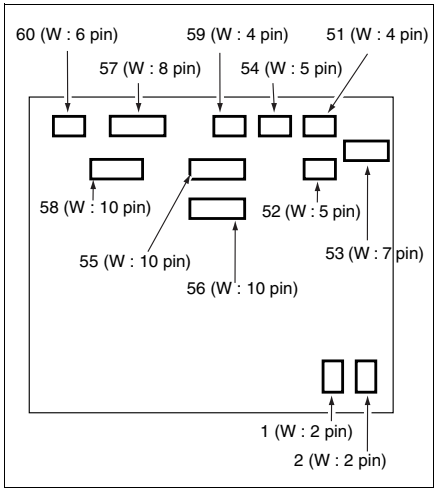
18. ADU Stand Drive Board



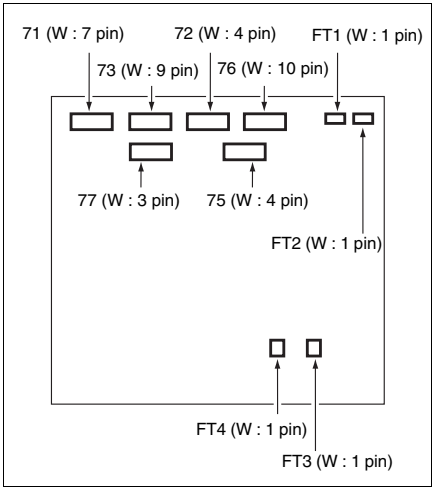
19. AC Drive Board



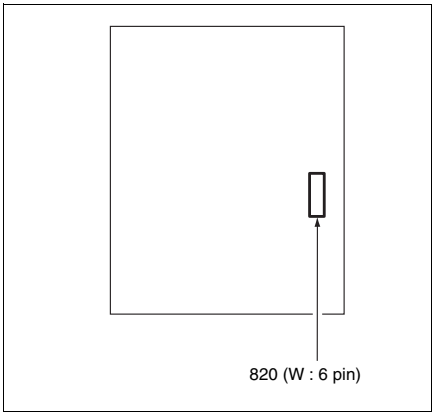
20. DC Power Supply Unit 1



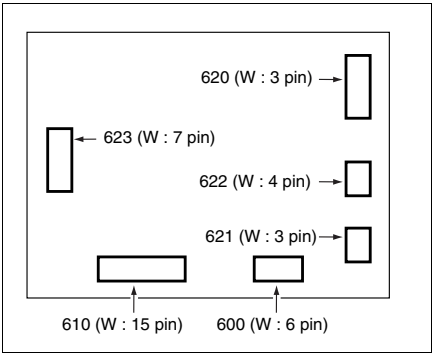
21. DC Power Supply Unit 2



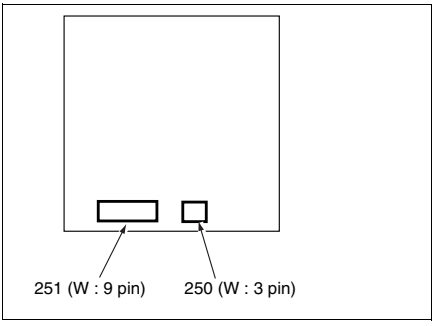
22. DC Power Supply Unit 3



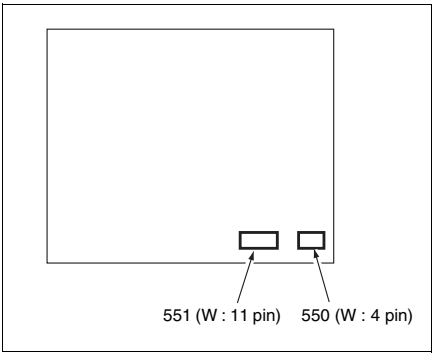
23. Scanner Drive Board



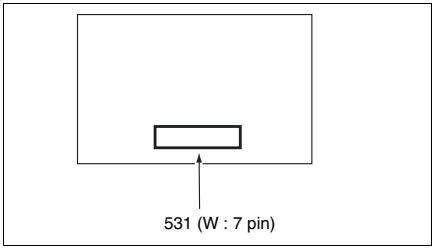
24. High Voltage Unit 1



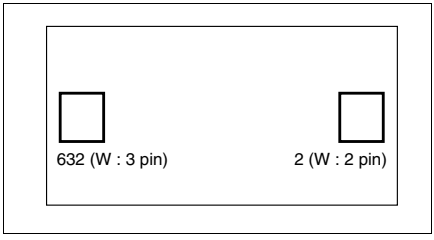
25. High Voltage Unit 2



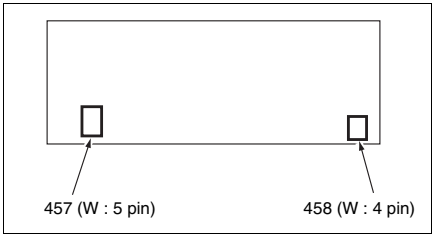
26. Jam Indicator Board



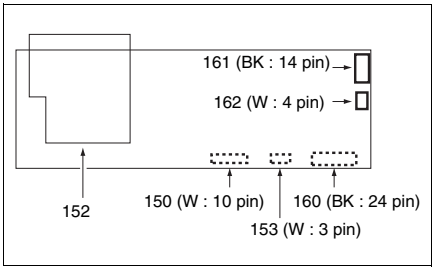
27. L1 Inverter



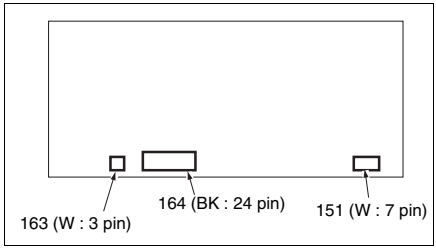
28. Drum Potential Sensor Board



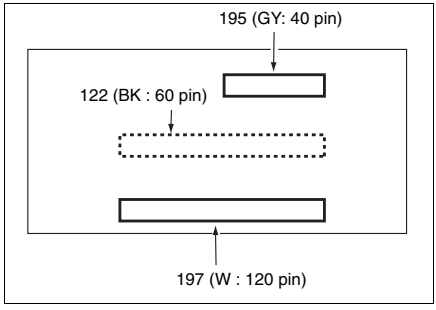
29. Operation Board 1



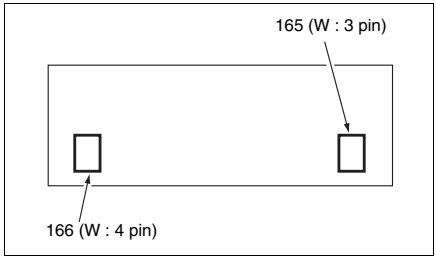
30. Operation Board 2



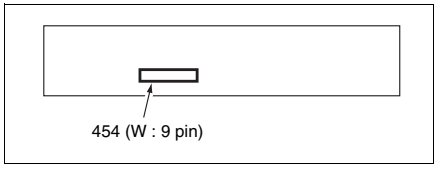
31. Optional I/F Board



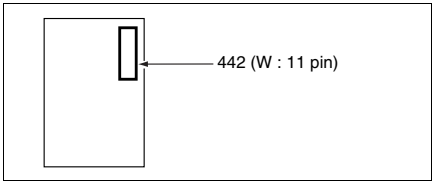
32. OB Inverter



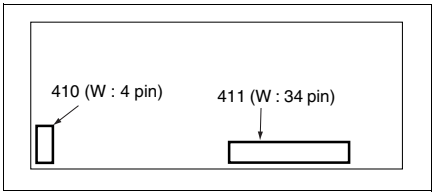
33. Toner Control Sensor Board



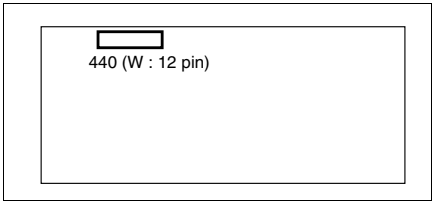
34. Index Sensor Board



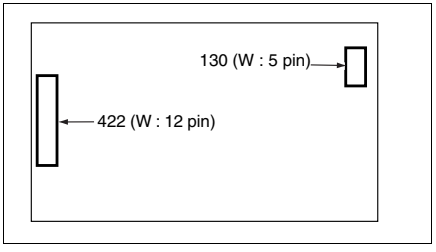
35. A/D Converter Board



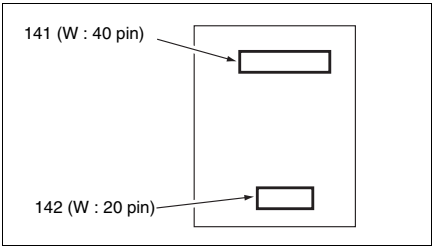
36. Laser Driver Board 1/2



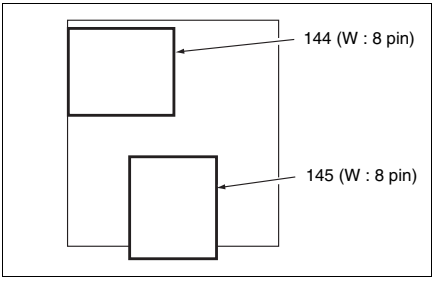
37. Polygon Motor Drive Board



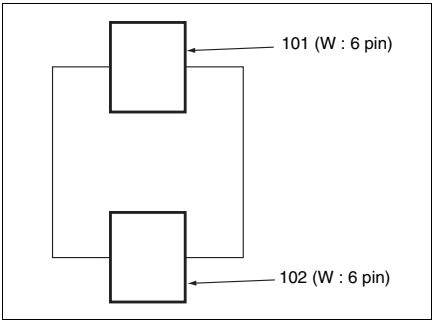
38. Memory Board



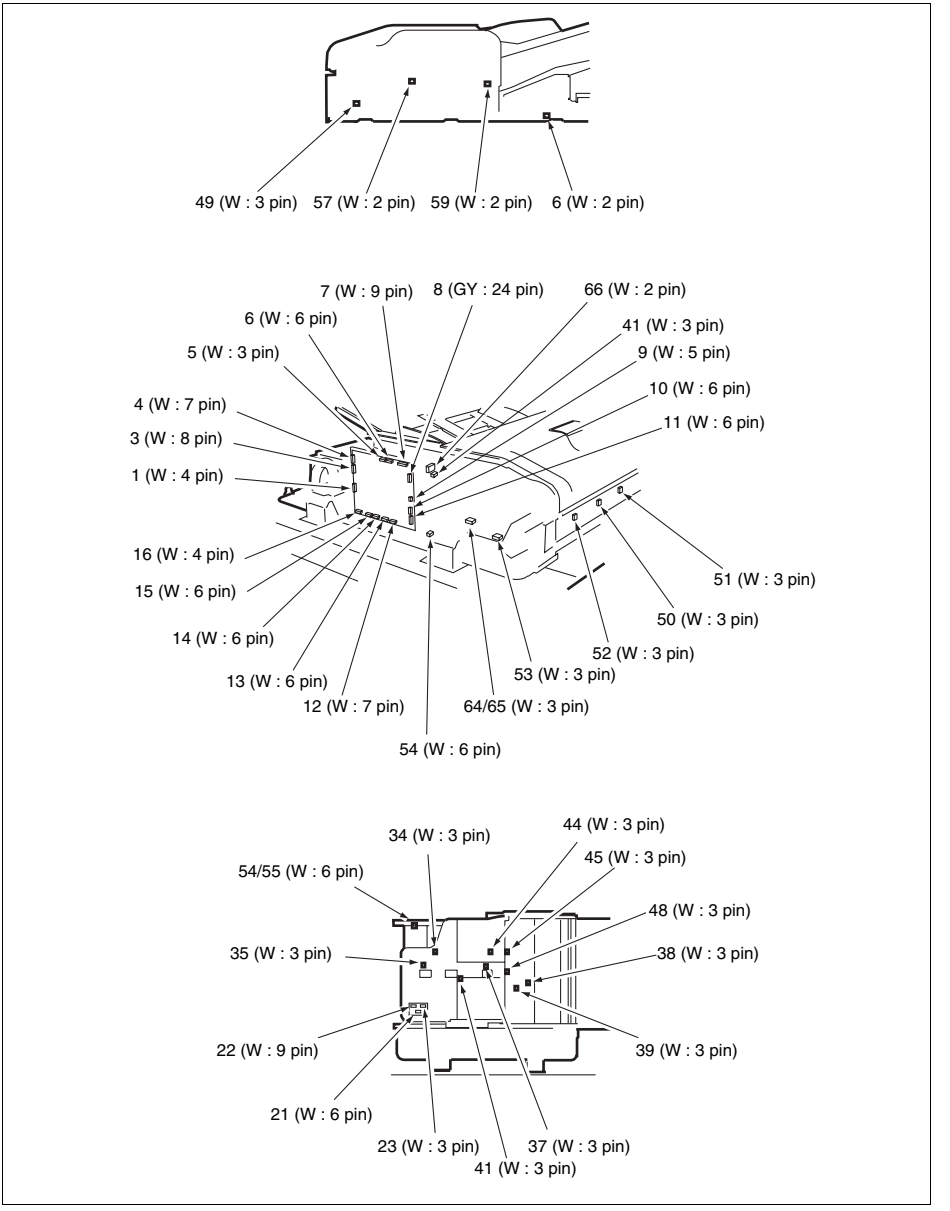
39. LAN I/F Board



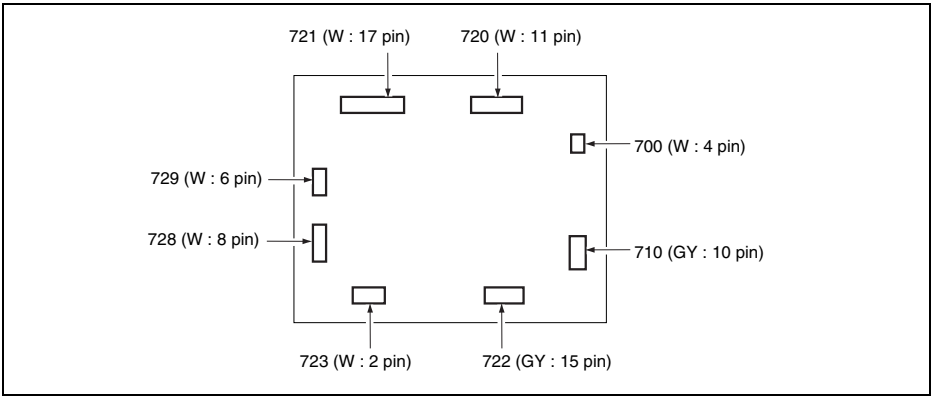
40. Printer Relay Board



[2] EDH-5 CONNECTOR LAYOUT DRAWING

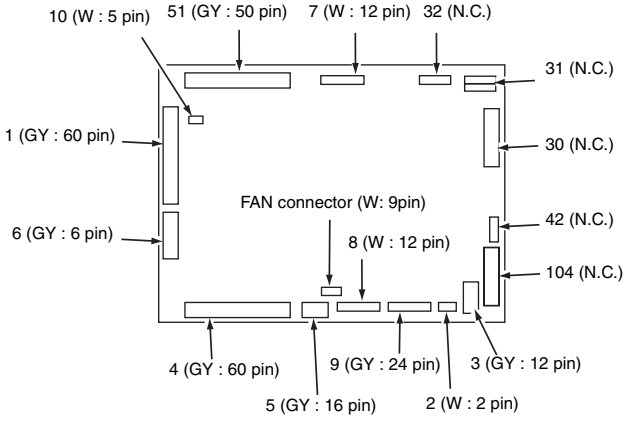


[3] C-403/C-404 Connector Layout Drawing

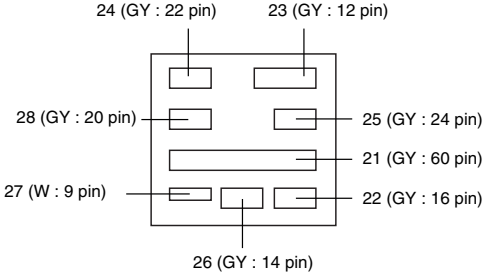


[4] FN-7/FN-115 Connector Layout Drawing

1. FNS Control Board

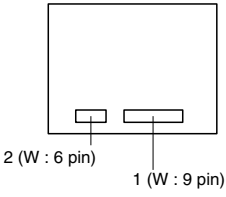


2. Relay Board (FN-7 only)

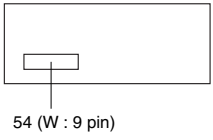


[5] Cover Inserter C Connector Layout Drawing

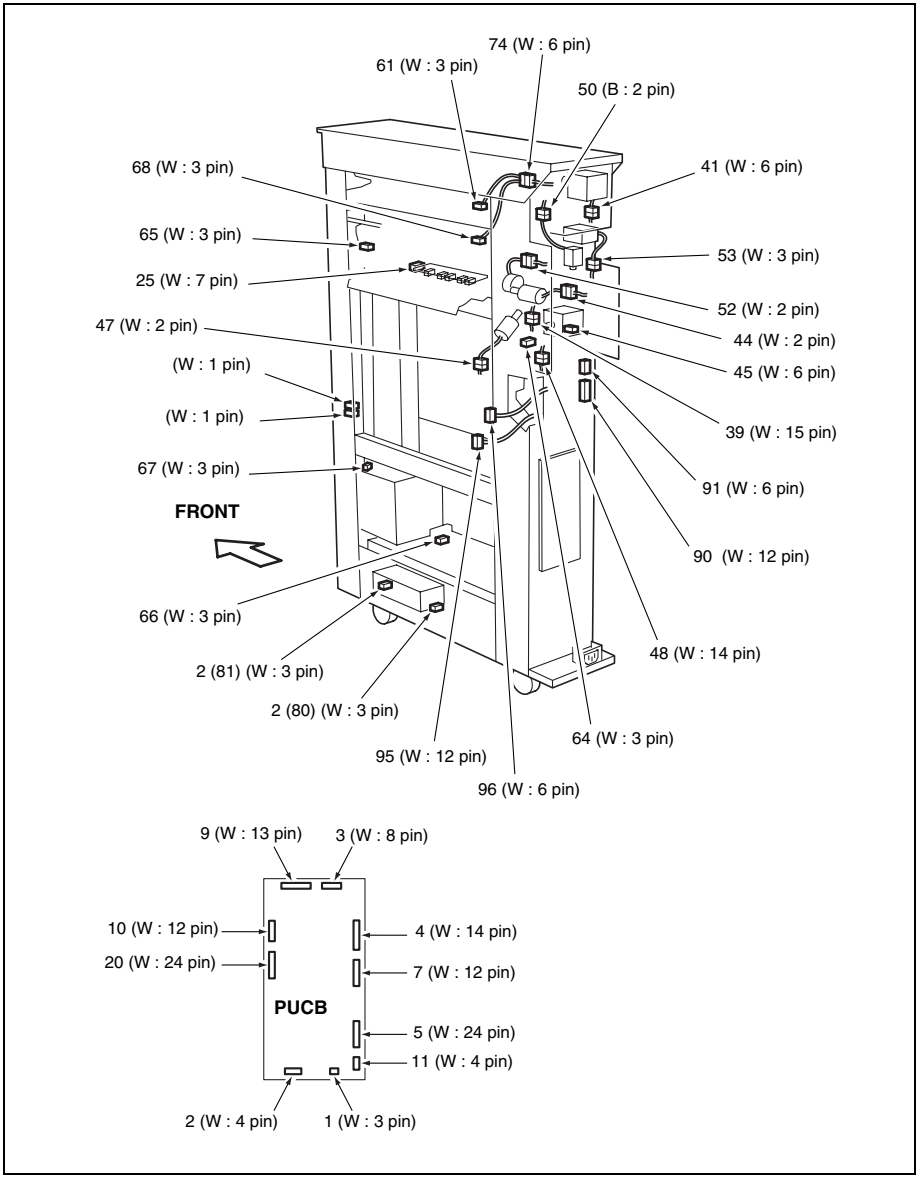
1. Drive Board



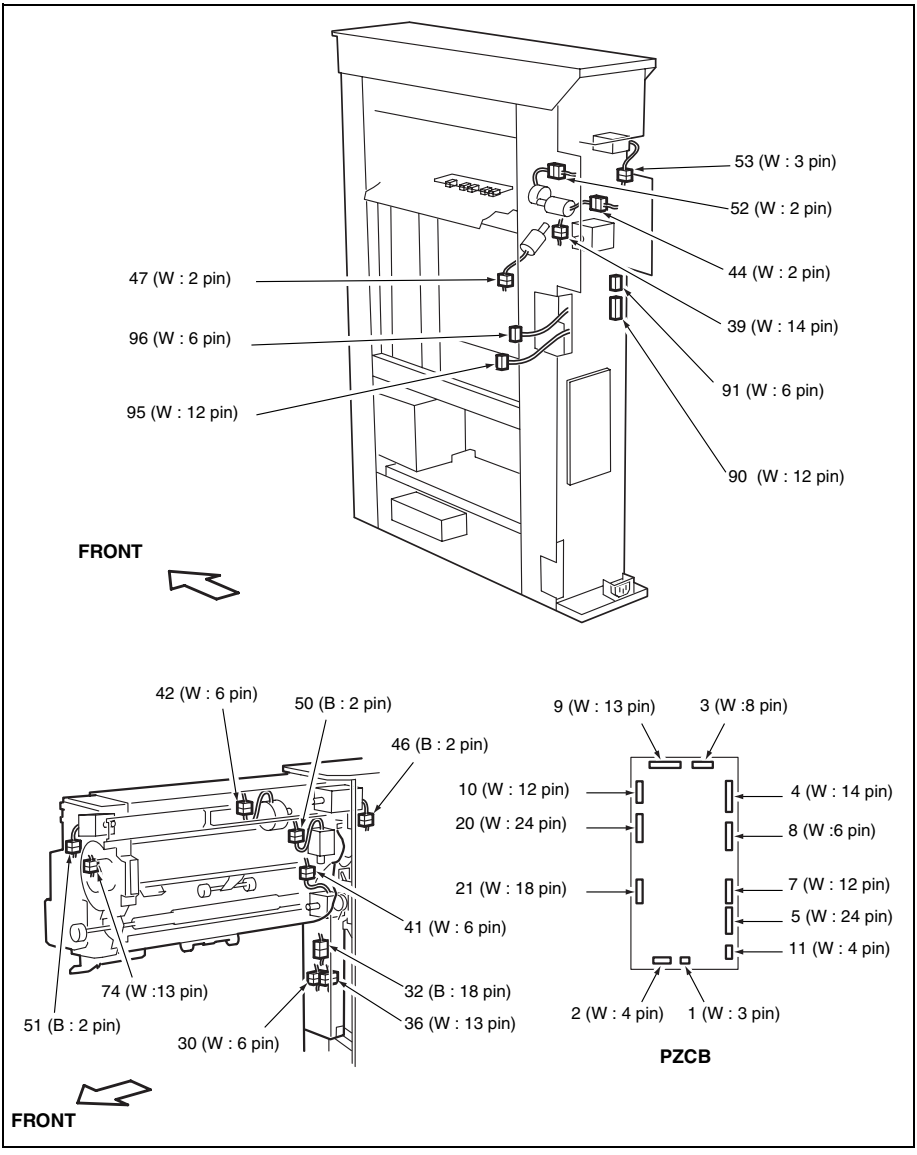
2. Operation Board



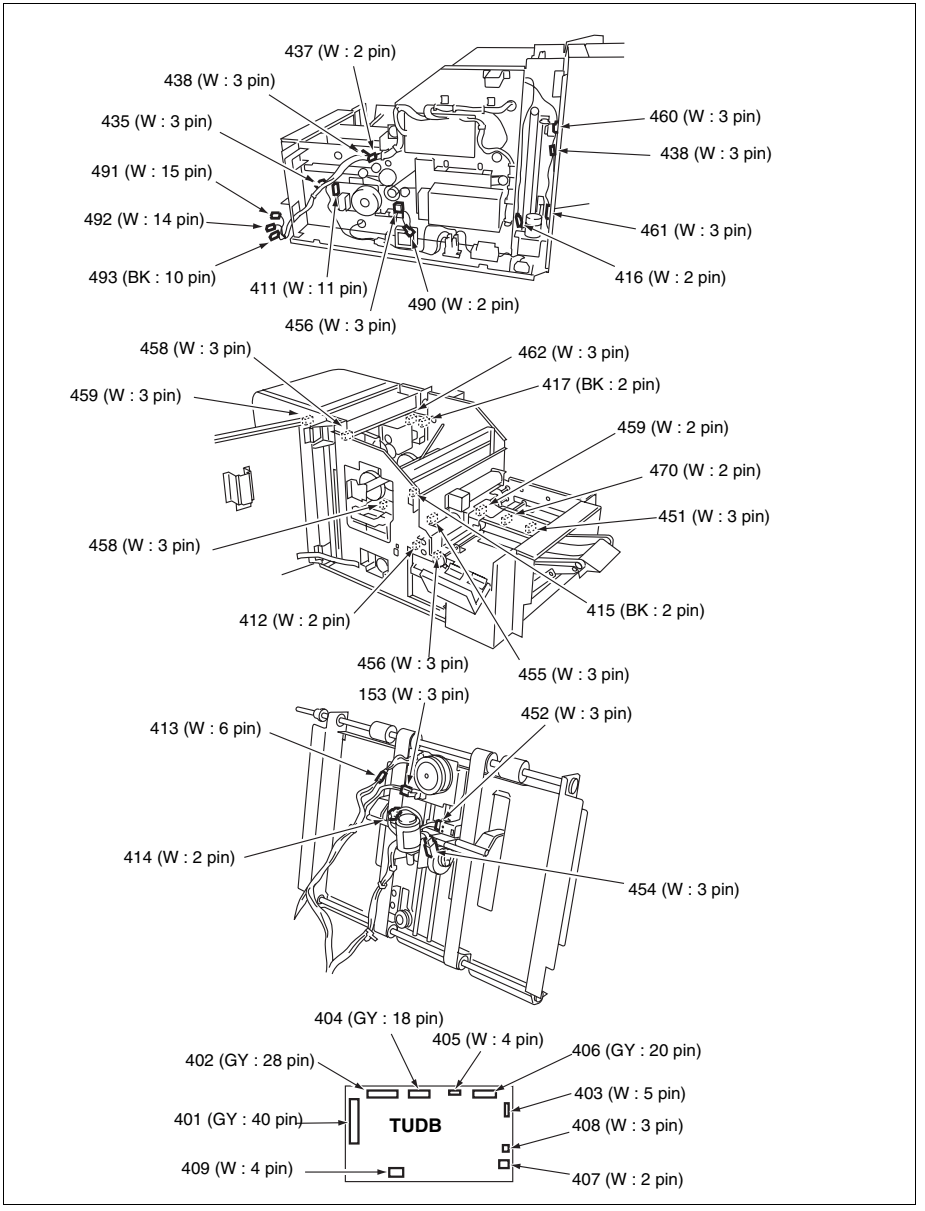
[6] PK-3 Connector Layout Drawing



[7] ZK-2 Connector Layout Drawing



[8] TMG-2 Connector Layout Drawing



JAM CODE LIST

	Classification	Jam Code		Cause	Machine response	Countermeasure
Main body	By-pass tray	J10-1	Operating	PS44 (registration) is not turned ON within the specified time after SD11 (pick up (by-pass)) is in the standby state.	If there is paper in the copy process when this jam occurs, the machine stops after completion of paper ejection.	Remove the paper from the by-pass tray and remove the jammed paper.
		J10-2		PS44 (registration) is not turned OFF within the specified time after SD11 (pick up (by-pass)) is turned ON.		
	Tray 1	J11-1		PS48 (paper pre-registration 1) is not turned ON within the specified time after MC4 (pre-registration MC 1) is turned ON	If there is paper in the copy process when this jam occurs, the machine stops after completion of paper ejection.	Draw out the tray and remove the jammed paper.
		J11-2		PS47 (paper feed 1) is not turned ON within the specified time after MC3 (feed MC1) is turned ON.		
		J11-3	Stationary	PS18 (vertical conveyance 1) is ON during idling.		Open the vertical conveyance door of the main body and remove the jammed paper.
		J11-4		PS47 (paper feed 1) is ON during idling.		Open the vertical conveyance door of the main body and remove the jammed paper.
		J11-5		PS48 (paper pre-registration 1) is ON during idling.		Remove the tray and remove the jammed paper.
	Tray 2	J12-1	Operating	PS50 (paper pre-registration 2) is not turned ON within the specified time after MC6 (pre-registration MC2) is turned ON.	If there is paper in the copying process when this jam occurs, the machine stops after completion of paper ejection.	Draw out the tray and remove the jammed paper.
		J12-2		PS49 (paper feed 2) is not turned ON within the specified time after MC5 (feed MC2) is turned ON.		
		J12-3	Stationary	PS53 (vertical conveyance 2) is ON during idling.		Open the vertical conveyance door of the main body and remove the jammed paper.
		J12-4		PS49 (feed 2) is ON during idling.		
		J12-5		PS50 (paper pre-registration 2) is ON during idling.		Draw out the tray and remove the jammed paper.

	Classification	Jam Code		Cause	Machine response	Countermeasure
Main body	Tray 3	J13-1	Operating	PS52 (paper pre-registration 3) is not turned ON within the specified time after MC8 (pre-registration MC3) is turned ON.	If there is a paper in copying process when this jam occurs, the machine stops after completion of paper ejection.	Draw out the tray and remove the jammed paper.
		J13-2		PS51 (paper feed 3) is not turned ON within the specified time after MC7 (feed MC3) is turned ON.		
		J13-3	Stationary	PS19 (vertical conveyance 3) is ON during idling.		Open the vertical conveyance door of the main body and remove the jammed paper.
		J13-4		PS51 (paper feed 3) is ON during idling.		Open the vertical conveyance door of the main body and remove the jammed paper.
		J13-5		PS52 (paper pre-registration 3) is ON during idling.		Draw out the tray and remove the jammed paper.
LCT	LCT	J14-1	Operating	PS107 (LT pre-registration) is not turned ON within the specified time after MC102 (LT first paper feed MC) is turned ON.	If there is a paper in copying process when this jam occurs, the machine stops after completion of paper ejection.	Open the top cover and remove the jammed paper. Open the jam access door and remove the jammed paper.
		J14-2		PS106 (LT feed) is not turned ON within the specified time after MC101 (LT feed drive MC) is turned ON.		
		J14-3	Stationary	PS106 (LT feed) is ON during idling.		
		J14-4		PS107 (LT pre-registration) is ON during idling.		
Main body	Paper feed and conveyance (common to all trays)	J17-1	Operating	PS44 (registration) is not turned ON within the specified time after PS54 (loop) or PS46 (ADU exit) is turned ON.	If there is a paper in copying process when this jam occurs, the machine stops after completion of copied paper ejection.	Open the front doors, draw out the ADU, open the paper registration and loop roller unit jam removal mechanism and jam access guide B, and remove the jammed paper.

	Classification	Jam Code		Cause	Machine response	Countermeasure
Main body	Paper feed and conveyance (tray 1)	J17-2	Operating	PS54 (loop) is not turned ON within the specified time after PS47 (paper feed 1) is turned ON.	If there is a paper in copying process when this jam occurs, the machine stops after completion of copied paper ejection.	Open the vertical conveyance door on the main body and remove the jammed paper.
	Paper feed and conveyance (tray 2/3)	J17-3		PS54 (loop) is not turned ON within the specified time after PS53 (vertical conveyance 2) is turned ON.		
	Paper feed and conveyance (tray 2)	J17-4		PS53(vertical conveyance 2) is not turned ON within the specified time after PS49 (paper feed 2) is turned ON.		
	Paper feed and conveyance (tray 3)	J17-5		PS53 (vertical conveyance 2) is not turned ON within the specified time after PS51 (paper feed 3) is turned ON		
LCT	LCT	J17-6		PS54 (loop) is not turned ON within the specified time after PS106 (LT feed detection) is turned ON.		Open the LCT jam access door and remove the jammed paper.
Main body	Paper feed/ conveyance	J17-7		PS45 (leading edge detection) is ON during idling.		Open the front doors, draw out the ADU, and remove the jammed paper.
		J17-8	Stationary	PS44 (registration) is ON during idling.		
		J17-9		PS46 (ADU exit) is ON during idling.		
		J17-10		PS54 (loop) is ON during idling.		
	Vertical conveyance door	J19-1	Operating	The vertical conveyance door is opened while copying.		Open the vertical conveyance door on the main body and remove the jammed paper.
LCT	LCT	J19-2		The jam access door or the top cover is opened during copying.		Open the LCT jam access door or top cover, and remove the jammed paper.
Main body	Drum	J21-1		The Dmax sensor detected paper at the specified timing in the print sequence.		Open the front door and pull out the ADU stand and remove the jammed paper.
		J21-2	Stationary	The Dmax sensor is detecting paper during idling.		

	Classification	Jam Code		Cause	Machine response	Countermeasure
Main body	Second paper feed and conveyance	J31-1	Operating	PS45 (leading edge detection) is not turned ON within the specified time after MC1 (Registration) is turned ON.	If there is a paper in copying process when this jam occurs, the machine stops after completion of paper ejection.	Open the front doors, draw out the ADU, and remove the jammed paper.
		J31-2		PS2 (fixing exit) is not turned ON within the specified time after PS45 (leading edge detection) is turned ON.		-
	Fixing/Exit	J32-1		PS61 (paper exit) is not turned ON within the specified time after PS2 (fixing exit) is turned ON.		
		J32-2		PS57 (paper reverse) is not turned ON within the specified time after PS2 (fixing exit) is turned ON.		
		J32-3		PS57 (paper reverse) is not turned ON again within the specified time after PS57 (paper reverse) is turned ON.		
		J32-4		PS61 (paper exit) is not turned ON within the specified time after PS57 (paper reverse) is turned ON again.		
		J32-5		PS61 (paper exit) is not turned OFF within the specified time after PS61 (paper exit) is turned ON.		
		J32-6	Stationary	PS61 (paper exit) is ON during idling.		
		J32-8		PS57 (paper reverse) is ON during idling.		
		J32-9		PS2 (fixing exit) is ON during idling.		
		J32-10		PS8 (paper reverse/conveyance) is ON during idling.		
		J32-11		PS3 (fixing jam) is ON during idling.		
	Front door	J51-1	Operating	The front right or left door is opened during copying.	The machine stops immediately.	

	Classification	Jam Code		Cause	Machine response	Countermeasure
RADF	EDH-5	J61-1	Operating	PS301 (RADF open/close detection) is turned OFF during RADF operation.	RADF stops immediately If there is a paper in copying process, the machine stops after completion of copied paper ejection.	Open the jam access cover and remove jammed paper.
		J61-2		MS301 (cover open/close) is turned OFF during RADF operation.		
		J62-1		PS306 (original registration detection) remains OFF within the specified time after start of pre-feed.		
		J62-2		PS308 (original conveyance detection) is not turned ON within the specified time after start of pre-feed at the front surface of the two-sided original (including one-sided original).		
		J62-3		PS308 (original conveyance detection) is not turned ON within the specified time after start of pre-feed at the back surface of the two-sided original.		
		J62-4		PS308 (original conveyance detection) is not turned OFF within the specified time after PS308 turning ON, when M301 (original conveyance roller drive) is rotating in the forward direction.		
		J62-5		PS308 (original conveyance detection) is not turned OFF within the specified time when M301 (original conveyance roller drive) is rotating in the backward direction.		
		J62-6		When a large-size two-sided original is fed into the reversal section, PS309 (original reversal detection) is not turned ON within the specified time after turning ON of PS308 (original conveyance detection).		
		J62-7		When a large-size one-sided original is ejected, PS307 (original exit 1) is not turned ON within the specified time after turning ON of PS308 (original conveyance detection).		
		J62-8		When a large-size two-sided original is ejected, PS307 (original exit 1) is not turned ON within the specified time after turning ON of PS309 (original reversal detection).		

	Classification	Jam Code		Cause	Machine response	Countermeasure
RADF	EDH-5	J62-9	Operating	When a large-size two-sided original is ejected, PS307 (original exit 1) is not turned OFF within the specified time after PS307 turning ON.	RADF stops immediately. If there is a paper in copying process, the machine stops after completion of copied paper ejection.	Open the jam access cover and remove jammed paper.
		J62-10		When a large-size two-sided original is ejected, PS307 (original exit 1) is not turned OFF within the specified time after PS307 turning ON.		
		J63-1		When a large-size two-sided original is fed out of the reversal section, PS309 (original reversal detection) is not turned ON.		
		J63-2		When a large-size two-sided original is fed into the reversal section, PS309 (original reversal detection) is not turned OFF within the specified time.		
		J63-3		When a large-size two-sided original is fed out of the reversal section, PS309 (original reversal detection) is not turned OFF within the specified time.		
		J63-4		When a small-size one-sided original is ejected, PS314 (original exit 2) is not turned ON within the specified time after turning ON of PS309 (original reversal detection).		
		J63-5		When a small-size two-sided original is ejected, PS314 (original exit 2) is not turned ON within the specified time after turning ON of PS313 (original exit reverse detection).		
		J63-6		When a small-size one-sided original is ejected, PS314 (original exit 2) is not turned OFF within the specified time after PS314 turning ON.		
		J63-7		When a small-size two-sided original is ejected, PS314 (original exit 2) is not turned OFF within the specified time after PS314 turning ON.		
		J63-8		When a small-size two-sided original is fed into the reversal section, PS309 (original reversal detection) is not turned ON within the specified time after turning ON of PS308 (original conveyance detection).		

	Classification	Jam Code		Cause	Machine response	Countermeasure
RADF	EDH-5	J63-9	Operating	When a small-size two-sided original is fed out of the reversal section, PS309 (original reversal detection) is not turned ON.	RADF stops immediately. If there is a paper in copying process, the machine stops after completion of copied paper ejection.	Open the jam access cover and remove jammed paper.
		J63-10		When a small-size two-sided original is fed into the reversal section, PS309 (original reversal detection) is not turned OFF.		
		J63-11		When a small-size two-sided original is fed out of the reversal section, PS309 (original reversal detection) is not turned OFF after PS309 turning ON.		
		J65-1	Stationary	PS306 (original registration detection) is ON during idling.		
		J65-2		PS308 (original conveyance detection) is ON during idling.		
		J65-4		PS309 (original reversal detection) is ON during idling.		
		J65-8		PS307 (original exit 1) is ON during idling.		
		J65-10		PS313 (original exit reverse detection) is ON during idling.		
		J65-20		PS314(original exit 2) is ON during idling.		
		J65-40		PS304(reverse jam detection) is ON during idling.		

	Classification	Jam Code		Cause	Machine response	Countermeasure
FNS	FN-7/FN-115	J71-1		The front cover or exit cover is opened during copying.	FNS/main body stops immediately.	Remove the jammed paper from the FNS or the main body.
TU	TMG-2	J71-2		The front door is opened during copying, or the stacker door is opened during trimmer operation.		
PZ	ZK-2	J71-3		Front door is opened while copying.		
FNS	FN-7/FN-115	J72-16	Operating	PS4(FNS entrance passage) is not turned ON within the specific time after the main body paper exit PS is turned ON.		
		J72-17		PS10(paper exit 2) is not turned ON within the specific time after PS4(FIN entrance passage) is turned ON.		
		J72-18		PS5(stacker conveyance passage) is not turned ON within the specific time after PS4(FIN entrance passage) is turned ON (in staple mode).		
		J72-19		PS5(satcker conveyance passage) is not turned OFF within the specific time after it turns ON.		
		J72-20		PS6(paper exit 1) is not turned ON within the specific time after the paper exit operation is started (in staple mode).		
		J72-21		PS6(paper exit 1) is not turned OFF within the specific time after it turns ON after the paper exit operation is started (in staple mode).		
		J72-22		PS1(subtray paper exit) is not turned ON within the specific time after PS4(FIN entrance passage) is turned ON (in subtray paper exit).		
		J72-23		PS1(subtray paper exit) is not turned OFF within the specific time after it turns ON (in subtray paper exit).		
		J72-24		PS28(folding passage/1) is not turned ON within the specific time after the staple is completed.		
		J72-25		PS25(folding paper exit) is not turned ON within the specific time after folding is completed.		
		J72-26		PS25(folding paper exit) is not turned OFF within the specific time after it turns ON.		

	Classification	Jam Code		Cause	Machine response	Countermeasure
FNS	FN-7/FN-115	J72-27	Operating	PS20(stacker no paper detection) is OFF when the staple is started.	Machine stops immediately.	Remove the jammed paper from the FNS or the main body.
		J72-28		PS5(stacker conveyance passage) is not turned OFF within the specific time after it turns ON.		
		J72-29		PS10(paper exit 2) is not turned OFF within the specific time after it turns ON.		
		J72-30		PS6(paper exit 1) is not turned OFF within the specific time after it turns ON.		
		J72-32		PS101(entrance) is not turned ON within the specific time after PS25(folding paper exit) turns ON.		
TU	TMG-2	J72-33		PS102(conveyance) is not turned ON within the specific time after PS101(entrance) turns ON.		
		J72-34		The paper has not pass the PS108(exit) within the specific time after M101(conveyance) turns ON.		
PI	Cover Inserter C	J72-35		PS201(sheet passage) is not turned ON within the specific time after MC201(paper feed) is turned ON.		
		J72-36		PS5(stacker conveyance passage) is not turned ON within the specific time after PS201(sheet passage) is turned ON.		
		J72-37		PS10(paper exit 2) is not turned ON within the specific time after PS201(sheet passage) is turned ON.		
PU/PZ	PK-3/ZK-2	J72-38		Leading/trailing/side edge PS on paper edge PS is not turned ON within the specific time after the main body paper exit PS is turned ON.		Remove the jammed paper from the PU, PZ or the main body.
		J72-39		Leading/trailing/side edge PS on paper edge PS is not turned OFF within the specific time after it turns ON.		
		J72-40		PS1(passage) is not turned ON within the specific time after leading/trailing/side edge PS on paper edge PS is turned ON.		
		J72-41		PS1(passage) is not turned ON within the specific time after it turned ON.		

	Classification	Jam Code		Cause	Machine response	Countermeasure
PZ	ZK-2	J72-42	Operating	During the paper feeding operation after the 2nd folding,PS1 (passage) is not turned off within the specified time after it has been turned on.	Machine stops immediately.	Remove the jammed paper from the PU,PZ or the main body.
PU/PZ	PK-3/ZK-2	J72-43		PS5(punch HP) is not turned ON within the specific time after MC1(punch clutch) is turned ON.		
		J72-44		PS8(exit) is not turned ON within the specific time after leading/trailing/side edge PS on paper edge PS is turned ON.		
		J72-45		PS8(exit) is not turned ON within the specific time after the main body paper exit PS is turned ON (Non-Punch mode).		
		J72-46		PS8(passage) is not turned OFF within the specific time after it turned ON (Non-Punch mode).		
		J72-47		Remaining paper detected in PU without the specific time after PU receives stop operation signal from the main body.		
		J72-48		Side edge PS correspond to the paper size is not turned ON within the specific time after leading/trailing/side edge PS on paper edge PS is turned ON (Punch mode).		
PZ	ZK-2	J72-49		PS1 (passage) is not turned on within the specified time after PSs for front/rear/side in the paper edge sensor have been turned on.		
		J72-50		PS8 (exit) is not turned on within the specified time after PS1 (passage) is turned on.		
		J72-51		M6 (conveyance) lost synchronism.		
FNS	FN-7/FN-115	J72-81		PS33(clincher HP/F) and PS34 (stapler HP/F) are not turned ON within the specific time after M23 (clincher F) and M24(stapler F) go ON.		Remove the jammed paper from the FNS or the main body.
		J72-82		PS30(clincher HP/R) and PS31 (stapler HP/R) are not turned ON within the specific time after M21 (clincher R) and M22(stapler R) go ON.		

	Classification	Jam Code		Cause	Machine response	Countermeasure
FNS	FN-7/FN-115	J72-83	Operating	PS30(clincher HP/R), PS33 (clincher HP/F), PS31(stapler HP/ R) and PS34(stapler HP/F) are not turned ON within the specific time after M21(clincher R), M23(clincher/ F), M22(stapler R) and M24(stapler/ F) go ON.	Machine stops immediately.	Remove the jammed paper from the FNS or the main body.
		J72-90		FNS does not stop within the specific time after it receives start-operation signal from the main body.		
		J73-1	Stationary	PS6(paper exit 1) is ON during idling.		
		J73-2		PS5(stacker conveyance passage) is ON during idling.		
		J73-3		PS26(folding passage/2) is ON during idling.		
		J73-4		PS13(entrance paper detection) is ON during idling.		
		J73-5		PS4(FIN entrance passage) is ON during idling.		
		J73-6		PS10(paper exit 2) is ON during idling.		
		J73-7		PS1(subtray paper exit) is ON during idling.		
		J73-8		PS20(stacker no paper detection) is ON during jamming at the paper exit.		
		J73-9		PS28(folding passage/1) is ON during idling.		
		J73-10		PS25(folding paper exit) is ON during idling.		
TU	TMG-2	J73-11		PS101(entrance) is ON during idling.		Remove the jammed paper from the FNS or the main body.
		J73-12		PS102(conveyance) is ON during idling.		
		J73-13		PS108(exit) is ON during idling.		
PI	Cover Inserter C	J73-14		PS201(sheet passage) is ON during idling.		Remove the jammed paper from the PI or the main body.
PU/PK	PK-3/ZK-2	J73-15		The following sensors are ON during idling: -Leading/trailing PS on paper edge PS -PS1 (passage) -PS8 (exit)		Remove the jammed paper from the PK, PU or the main body.

	Classification	Jam Code	Cause		Machine response	Countermeasure
Main body	ADU	J92-1	Operating	PS58 (ADU paper reverse) is not turned ON within the specified time after PS57 (paper reverse) is turned ON.	If there is a paper in copying process when this jam occurs, the machine stops after completion of paper ejection.	Open the front doors, draw out the ADU, and remove the jammed paper.
		J92-2		PS58 (ADU paper reverse) is not turned ON again within the specified time after PS58 (ADU paper reverse) is turned ON.		
		J92-3	Stationary	PS58 (ADU paper reverse) is ON during idling.		
		J93-1	Operating	PS59 (ADU deceleration) is not turned ON within the specified time after PS58 (ADU paper reverse) is turned ON.		
		J93-2	Stationary	PS59 (ADU deceleration) is ON during idling.		
		J93-3		PS9 (ADU paper conveyance) is ON during idling.		
		J93-4		PS8 (paper reverse/ conveyance) is ON during idling.		
		J94-1	Operating	PS60 (ADU pre-registration) is not turned ON within the specified time after PS59 (ADU deceleration) is turned ON.		
		J94-2		PS46 (ADU exit) is not turned ON within the specified time after PS60 (ADU pre-registration) is turned ON.		
		J94-3	Stationary	PS60 (ADU pre-registration) is ON during idling.		

ERROR CODE LIST

	Classification	Warning Code	Cause	Machine response	Estimated abnormal parts
Main body	Drive	F13-01	Check on M4 (paper feed) rotation abnormality signal. An abnormal detection signal is detected two consecutive times (the first signal is ignored) at specified time after turning ON of M4.	The machine stops immediately and RL1 (main) is turned OFF.	M4 (paper feed) PRCB (printer control board)
		F13-02	M101 (LT paper feed) rotation speed error signal check. An abnormal detection signal is detected two consecutive times (the first signal is ignored) at specified time after turning ON of M101.		M101 (LT paper feed) LTDB (LT drive board)
		F13-03	Check on blown fuse of M6 (loop roller) in PRCB. An M6 abnormal detection signal (blown fuse) is detected when M6 is ON.	If there is a paper in copying process when this trouble occurs, the machine stops after completion of paper ejection. RL1 (main) is turned OFF.	M6 (loop roller) DCDB (DC drive board) PRCB (printer control board) M6 harness short circuit with the ground
	Tray 1	F18-10	M19 (up drive 1) lock detection. An M19 abnormal detection signal is detected when M19 is ON.	The machine stops immediately and RL1 (main) is turned OFF.	M19 (up drive 1) DCDB (DC drive board) PRCB (printer control board) PS20 (tray upper limit 1) DCPS2 (DC power supply unit 2) Connector connection failure Tray trailing edge limit plate position error Paper stacking error Tray 1)
		F18-11	PS20 (tray upper limit 1) which has been OFF is not turned ON within 10 seconds of upward movement started by turning ON of M19 (up drive 1). At this time, a trouble detection signal (blown fuse) is detected.	Error code is not displayed on operation panel. It is displayed only on data collection and list output. Message "Please load paper in tray 1." is displayed on operation panel because tray has not completed ascending.	
		F18-12	PS20 (tray upper limit 1) which has been OFF is not turned ON within 10 seconds of upward movement started by turning ON of M19 (up drive 1). At this time, an abnormal detection signal (blown fuse) is detected.		
		F18-13	PS20 (tray upper limit 1) which has been OFF is not turned ON within 10 seconds of upward movement started by turning ON of M19 (up drive 1). At this time, no abnormal detection signal is detected.		

	Classification	Warning Code	Cause	Machine response	Estimated abnormal parts
Main body	Tray 2	F18-20	M20 (up drive 2) lock detection. An M20 abnormal detection signal is detected when M20 is ON.	The machine stops immediately and RL1 (main) is turned OFF.	M20 (up drive 2) DCDB (DC drive board) PRCB (printer control board) PS21 (tray upper limit 2) DCPS2 (DC power supply unit 2) Connector connection failure Tray trailing edge limit plate position error Paper stacking error Tray 2
		F18-21	PS21 (tray upper limit 2) which has been OFF is not turned ON within 10 seconds of upward movement started by turning ON of M20 (up drive 2). At this time, a trouble detection signal (24 V off) is detected.	The machine stops immediately and RL1 (main) is turned OFF. Error code is not displayed on operation panel. It is displayed only on data collection and list output. Message "Please load paper in tray 2." is displayed on operation panel because tray has not completed ascending.	
		F18-22	PS21 (tray upper limit 2) which has been OFF is not turned ON within specified time of upward movement started by turning ON of M20 (up drive 2). At this time, an abnormal detection signal (blown fuse) is detected.		
		F18-23	PS21 (tray upper limit 2) which has been OFF is not turned ON within specified time of upward movement started by turning ON of M20 (up drive 2). At this time, no abnormal detection signal is detected.		
	Tray 3	F18-30	M21 (up drive 3) lock detection. An M21 abnormal detection signal is detected when M21 is ON.	The machine stops immediately and RL1 (main) is turned OFF.	M21 (up drive 3) DCDB (DC drive board) PRCB (printer control board) PS22 (tray upper limit 3) Connector connection failure Tray trailing edge limit plate position error Paper stacking error Tray 3
		F18-31	PS22 (tray upper limit 3) which has been OFF is not turned ON within specified time of upward movement started by turning ON of M21 (up drive 3). At this time, an abnormal detection signal (24 V off) is detected.	Error code is not displayed on operation panel. It is displayed only on data collection and list output. Message "Please load paper in tray 3." is displayed on operation panel because tray has not completed ascending.	
		F18-32	PS22 (tray upper limit 3) which has been OFF is not turned ON within specified time of upward movement started by turning ON of M21 (up drive 3). At this time, an abnormal detection signal (blown fuse) is detected.		
		F18-33	PS22 (tray upper limit 3) which has been OFF is not turned ON within specified time of upward movement started by turning ON of M21 (up drive 3). At this time, no abnormal detection signal is detected.		

	Classification	Warning Code	Cause	Machine response	Estimated abnormal parts
LCT	LCT	F18-40	M100 (LT up/down) lock detection. When M100 is ON, an M100 abnormal detection signal has been continuously detected for one second.	The machine stops immediately and RL1 (main) is turned OFF.	M100 (LT up/down) LTDB (LT drive board) PS101 (LT lower limit detection) PS109 (LT upper limit detection) DCPS2 (DC power supply unit 2) Connector connection failure
		F18-41	PS109 (LT upper limit detection) or PS101 (LT lower limit detection) which has been OFF is not turned ON within specified time of upward or downward movement started by turning ON of M100 (LT up/down). At this time, an abnormal detection signal (24 V off) is detected.	Error code is not displayed on operation panel. It is displayed only on data collection and list output. Message "Please load paper in tray 4." is displayed on operation panel because tray has not completed ascending.	
		F18-42	PS109 (LT upper limit detection) or PS101 (LT lower limit detection) which has been OFF is not turned ON within specified time of upward or downward movement started by turning ON of M100 (LT up/down drive). At this time, an abnormal detection signal (blown fuse) is detected.		
		F18-43	PS109 (LT upper limit detection) or PS101 (LT lower limit detection) which has been OFF is not turned ON within specified time of upward or downward movement started by turning ON of M100 (LT up/down drive). At this time, no abnormal detection signal is detected.		

	Classification	Warning Code	Cause	Machine response	Estimated abnormal parts
Main body	By-pass feed	F18-51	PS23 (tray upper limit (by-pass)) or PS43 (tray lower limit (by-pass)) which has been OFF is not turned ON within specified time of upward or downward movement started by turning ON of M22 (up/down (by-pass)). At this time, an abnormal detection signal (24 V off) is detected.	Operation panel displays jam error (J10-01). It is reset by paper re-load. Error code is displayed on data collection and list output	M22 (up/down (by-pass)) DCDB (DC drive board) PRCB (printer control board) PS23 (tray upper limit (by-pass)) PS43 (tray lower limit (by-pass)) DCPS2 (DC power supply unit 2) Connector connection failure
		F18-52	PS23 (tray upper limit (by-pass)) or PS43 (tray lower limit (by-pass)) which has been OFF is not turned ON within 10 seconds of upward or downward movement started by turning ON of M22 (up/down (by-pass)). At this time, an abnormal detection signal (blown fuse) is detected.		
		F18-53	PS23 (tray upper limit (by-pass)) or PS43 (tray lower limit (by-pass)) which has been OFF is not turned ON within 10 seconds of upward or downward movement started by turning ON of M22 (up/down (by-pass)). At this time, no abnormal detection signal is detected.		

	Classification	Warning Code	Cause	Machine response	Estimated abnormal parts
Main body	Wire cleaning abnormality	F21-01	• When SW1 (main) has been ON and PS41 (charging wire cleaning pad HP) has been OFF, PS41 is not turned ON within 35 seconds of home position search operation (return) started by turning ON of M23 (charger cleaning). At this time, an abnormal detection signal (blown fuse) is not detected. • PS41 is not turned OFF within specified time after start of reversal operation (return). At this time, an abnormal detection signal (blown fuse) is not detected. • Check on excess over M23 operation time limit. PS42 (charging wire cleaning pad limit) is not turned ON within specified time after detection of turning OFF of PS41 (charging wire cleaning pad HP) at the start of reversal operation (return), or PS41 is not turned ON within specified time after turning ON of PS42. At this time, an abnormal detection signal (blown fuse) is not detected.	The machine stops immediately and RL1 (main) is turned OFF.	M23 (charger cleaning) DCDB (DC drive board) PRCB (printer control board) PS41 (charging wire cleaning pad HP) PS42 (charging wire cleaning pad limit) Breaking of harness Connector connection failure
		F21-02	• Check on blown fuse of M23 in PRCB. When SW1 (main) has been ON and PS41 (charging wire cleaning pad HP) has been OFF, PS41 is not turned ON within specified time of home position search operation (return) started by turning ON of M23. At this time, an abnormal detection signal (blown fuse) is detected. • PS41 is not turned OFF within specified time after start of reversal operation (return). At this time, an abnormal detection signal (blown fuse) is detected. • PS42 (charging wire cleaning pad limit) is not turned ON within specified time after detection of turning OFF of PS41 (charging wire cleaning pad HP) at the start of reversal operation (return), or PS41 is not turned ON within specified time after turning ON of PS42. At this time, an abnormal detection signal (blown fuse) is detected.		

	Classification	Warning Code	Cause	Machine response	Estimated abnormal parts
Main body	Wire cleaning abnormality	F21-03	M23 (charger cleaning) lock detection. A motor lock signal is detected during the cleaning pad moving from the PS42 (charging wire cleaning pad limit) side to the PS41 (charging wire cleaning pad HP) side. After retry, the fifth motor lock signal is detected.	The machine stops immediately and RL1 (main) is turned OFF.	M23 (charger cleaning) DCDB (DC drive board) PRCB (printer control board) PS41 (charging wire cleaning pad HP) PS42 (charging wire cleaning pad limit) Charge control plate cleaner
		F21-04	• Check on excess over M18 (transfer/separation cleaning) operation time limit. When SW1 (main) has been ON and PS11 (transfer/separation wire cleaning pad HP) has been OFF, PS11 is not turned ON within specified time of home position search operation (return) started by turning ON of M18. At this time, an abnormal detection signal (blown fuse) is not detected. • PS11 is not turned OFF within specified time after start of reversal operation (return). At this time, an abnormal detection signal (blown fuse) is not detected. • Check on excess over M18 (transfer/separation cleaning) operation time limit. PS12 (transfer/separation wire cleaning pad limit) is not turned ON within specified time after detection of turning OFF of PS11 (transfer/separation wire cleaning pad HP) at the start of reversal operation (return), or PS11 is not turned ON within specified time after turning ON of PS12. At this time, an abnormal detection signal (blown fuse) is not detected.		M18 (transfer/separation cleaning) ADUSDB (ADU stand drive board) PS11 (transfer/separation wire cleaning pad HP) PS12 (transfer/separation wire cleaning pad limit) Breaking of harness Connector connection failure

	Classification	Warning Code	Cause	Machine response	Estimated abnormal parts
Main body	Wire cleaning abnormality	F21-05	• Check on blown fuse of M18 (transfer/separation cleaning) in ADUSDB. When SW1 (main) has been ON and PS11 (transfer/separation wire cleaning pad HP) has been OFF, PS11 is not turned ON within specified time of home position search operation (return) started by turning ON of M18. At this time, an abnormal detection signal (blown fuse) is detected. • PS11 is not turned OFF within specified time after start of reversal operation (return). At this time, an abnormal detection signal (blown fuse) is detected. • PS12 (transfer/separation wire cleaning pad limit) is not turned ON within specified time after detection of turning OFF of PS11 (transfer/separation wire cleaning pad HP) at the start of reversal operation (return), or PS11 is not turned ON within specified time after turning ON of PS12. At this time, an abnormal detection signal (blown fuse) is detected.	The machine stops immediately and RL1 (main) is turned OFF.	M18 (transfer/separation cleaning) ADUSDB (ADU stand drive board) PS11 (transfer/separation wire cleaning pad HP) PS12 (transfer/separation wire cleaning pad limit) Breaking of harness Connector connection failure Transfer/separation wire cleaning pad
		F21-06	M18 (transfer/separation cleaning) lock detection. A motor lock signal is detected during movement from the PS12 (transfer/separation wire cleaning pad limit) side to the PS11 (transfer/separation wire cleaning pad HP) side. After retry, the fifth motor lock signal is detected.		
	Motor abnormality	F23-01	Check on M15 (toner supply 2) rotation speed abnormality signal. An abnormal detection signal is detected two consecutive times (the first signal is ignored) in 7 seconds after turning ON of M15.		M15 (toner supply 2) PRCB (printer control board)
		F23-02	Check on M3 (developing) rotation speed abnormality signal. Because an abnormal detection signal had been detected one second after turning ON of M3, M3 was turned OFF for 0.5 second and ON again. One second later, an abnormal detection signal was detected again.		M3 (developing) PRCB (printer control board)

	Classification	Warning Code	Cause	Machine response	Estimated abnormal parts
Main body	Motor abnormality	F23-03	M14 (blade) lock detection. An M14 abnormal detection signal (excessive current) is detected.	The machine stops immediately and turns OFF RL1 (main).	M2 (drum) M14 (blade) DCDB (DC drive board) PRCB (printer control board) PS30 (blade 1) PS31 (blade 2) DCPS2 (DC power supply unit 2) Breaking of harness Connector connection failure
		F23-04	Check on M14 (blade) movement incompletion and 24 V power supply. The drum READY1 signal (ready) is not detected within specified time after turning ON of M2 (drum), or the drum READY1 signal (not ready) is not detected within specified time after turning OFF of M2. At this time, an abnormal detection signal (24 V off) is detected.		
		F23-05	Check on blown fuse of M14 (blade) in PRCB. The drum READY1 signal (ready) is not detected within specified time after turning ON of M2 (drum), or the drum READY1 signal (not ready) is not detected within specified time after turning OFF of M2. At this time, an M14 abnormal detection signal (blown fuse) is detected.		
		F23-06	Check on M14 (blade) movement incompletion. The drum READY1 signal (ready) is not detected within specified time after turning ON of M2 (drum), or the drum READY1 signal (not ready) is not detected within specified time after turning OFF of M2. At this time, no abnormal detection signal is detected.		
		F23-07	Check on M14 (blade) movement incompletion and 24 V power supply. The blade READY signal (ready) is not detected within specified time after turning ON of the blade replacement signal, or the blade READY signal (not ready) is not detected within specified time after turning OFF of the blade replacement signal. At this time, an abnormal detection signal (24 V off) is detected.		

	Classification	Warning Code	Cause	Machine response	Estimated abnormal parts
Main body	Motor abnormality	F23-08	The blade READY signal (ready) is not detected within 5 seconds after turning ON of the blade replacement signal, or the blade READY signal (not ready) is not detected within 5 seconds after turning OFF of the blade replacement signal. At this time, an M14 (blade) abnormal detection signal (blown fuse) is detected.	The machine stops immediately and RL1 (main) is turned OFF.	M2 (drum) M14 (blade) DCDB (DC drive board) PRCB (printer control board) PS30 (blade 1) PS31 (blade 2) DCPS2 (DC power supply unit 2) Breaking of harness Connector connection failure
		F23-09	Check on M14 (blade) movement incompletion. The blade READY signal (ready) is not detected within specified time after turning ON of the blade replacement signal, or the blade READY signal (not ready) is not detected within specified time after turning OFF of the cleaning blade replacement signal. At this time, no abnormal detection signal is detected.		M14 (blade) DCDB (DC drive board) PRCB (printer control board) PS30 (blade 1) PS31 (blade 2) Breaking of harness Connector connection failure
		F23-10	Check on M2 (drum) start operation incompletion. The drum READY2 signal (ready) is not detected within specified time after turning ON of M2.		M2 (drum) PRCB (printer control board) Connector connection failure
		F23-11	Check on blown fuse of M11 (toner supply 1) in PRCB. An abnormal detection signal (blown fuse) is detected when M11 is turned ON.		M11 (toner supply 1) DCDB (DC drive board) Breaking of harness
		F24-01	At specified time after turning ON of SW1 (main), TH5 (drum temperature) detected temperature is -3°C or lower. One minute after this, the drum temperature is -3°C or lower.		DPSB (drum potential sensor board) PRCB (printer control board) TH5 (drum temperature)
		F24-02	When SW1 (main) is ON with fixing temperature at 50°C or lower, TH5 (drum temperature) detected temperature is 52°C or higher. At specified time after this, the detected temperature is 52°C or higher.		

	Classification	Warning Code	Cause	Machine response	Estimated abnormal parts
Main body	High voltage power supply abnormality	F28-01	Charging leakage detection. The charging ON/OFF operation has been performed five consecutive times since the charging abnormal detection signal was detected at start of charging.	If there is a paper in copying process when this trouble occurs, the machine stops after completion of copied paper ejection. RL1 (main) is turned OFF.	HV1 (high voltage unit1) Power supply connecting point of charging corona unit
		F28-02	Transfer leakage detection. The transfer ON/OFF operation has been performed five consecutive times since the transfer trouble detection signal was detected at start of transfer.		HV2 (high voltage unit 2) Power supply connecting point of transfer/separation corona unit
		F28-03	Separation leakage detection. The separation ON/OFF operation has been performed five consecutive times since the separation trouble detection signal was detected at start of separation.		
		F28-04	An HV2 (high voltage unit 2) abnormal detection signal (blown 24V fuse) is detected.	The machine stops immediately and RL1 (main) is turned OFF.	TCSB (toner control sensor board) PRCB (printer control board) HV2 (high voltage unit 2) Power supply connecting point of transfer/separation corona unit ADUSDB (ADU stand drive board) Breaking of harness
	Process abnormality	F29-01	The Dmax sensor is dirty during Dmax correction. If this trouble is detected ten successive times, the corresponding service code is displayed.	The machine stops immediately and RL1 (main) is turned OFF.	

	Classification	Warning Code	Cause	Machine response	Estimated abnormal parts
Main Unit	Process abnormality	F29-02	Dmax correction incompletion. The rotation speed of the developing sleeve reached the maximum value during Dmax correction.	Error code is not displayed on operation panel. It is displayed only on data collection, list output. Main body control is performed using previous data.	TCSB (toner control sensor board) PRCB (printer control board) M3 (developing) Write unit ICB (image control board) ICB IFB (ICB I/F board)
		F29-03	Dmax sensor output abnormality. The control patch is not output during Dmax correction. (No output from the Dmax sensor)		
		F29-04	Sensor dirt correction incompletion. Dirt correction failure of the γ sensor during γ adjustment. If E29-4 or E29-7 is detected ten successive times, the error code is displayed.	The machine stops immediately and RL1 (main) is turned OFF.	
		F29-05	γ correction data error. The control patch is not output during γ correction. (No output from the γ sensor)	Error code is not displayed on operation panel. It is displayed only on data collection and list output. Main body control is performed using previous data. The machine stops immediately and RL1 (main) is turned OFF.	
		F29-06	γ correction data error. A recurrence error occurred when carry out γ curve for γ correction.		
		F29-07	Sensor dirt correction incompletion. Dirt correction failure of the γ sensor during dot diameter adjustment. If E29-4 or E29-7 is detected ten successive times, the corresponding error code is displayed.	The machine stops immediately and RL1 (main) is turned OFF.	
		F29-08	Correction abnormality. Dot diameter correction ended with an abnormal value.	Error code is not displayed on operation panel. It is displayed only on data collection and list output. Main body control is performed using previous data.	
		F29-09	DPS (drum potential sensor) output abnormality. A drum surface potential of over 100 V was detected 5 or more times when a 0 V check was performed by drum potential sensor. If this trouble is detected five successive times, the error code is displayed.	The machine stops immediately and RL1 (main) is turned OFF.	DPSB (drum potential sensor board) PRCB (printer control board) DPS (drum potential sensor) Connector connection failure

	Classification	Warning Code	Cause	Machine response	Estimated abnormal parts
Main Unit	Process abnormality	F29-10	DPS (drum potential sensor) output abnormality. The control patch is not output because VI exceeds 350V during drum potential correction. If this trouble is detected 5 successive times, the error code is displayed.	The machine stops immediately and RL1 (main) is turned OFF.	DPSB (drum potential sensor board) PRCB (printer control board) DPS (drum potential sensor) Connector connection failure
		F29-11	Data error. Drum potential correction is not completed if it is made 10 or more times. If this trouble is detected 5 successive times, the error code is displayed.		
		F29-12	Automatic adjustment monitor value abnormality. Automatic adjustment of the transfer current is not completed.	Error code is not displayed on operation panel. It is displayed only on data collection and list output. Main body control is performed using previous data.	HV1 (high voltage unit 1) HV2 (high voltage unit 2) PRCB (printer control board) ADUSDB (ADU stand drive board)
		F29-13	Automatic adjustment monitor value abnormality. Automatic adjustment of the separation (AC) current is not completed.		
		F29-14	Automatic adjustment monitor value abnormality. Automatic adjustment of the separation (DC) current is not completed.		
		F29-15	Automatic adjustment monitor value abnormality. Automatic adjustment of the developing bias (DC) current is not completed.		
	Fan abnormality	F32-01	Check on FM2 (developing suction) rotation and 24 V power supply. The FM2 (developing suction) EM signal was abnormal at specified time after turning FM2 ON. At specified time after turning FM2 OFF and ON again, the FM2 EM signal is still abnormal and an abnormal detection signal (24 V off) is detected.	The machine stops immediately and RL1 (main) is turned OFF.	ACDB (AC drive board) FM2 (developing suction) DCPS2 (DC power supply unit 2) Harness short circuit with the ground Connector connection failure
		F32-02	Check on blown fuse of FM2 (developing suction) in ACDB. The FM2 EM signal was abnormal at specified time after turning FM2 ON. At specified time after turning FM2 OFF and ON again, the FM2 EM signal is still abnormal and an abnormal detection signal (blown fuse) is detected.		

	Classification	Warning Code	Cause	Machine response	Estimated abnormal parts
Main body	Fan abnormality	F32-03	Check on FM2 (developing suction) rotation. The FM2 (developing suction) EM signal was abnormal at specified time after turning FM2 ON. At specified time after turning FM2 OFF and ON again, the FM2 EM signal is still abnormal and an abnormal detection signal (24V off/blown fuse) is not detected.	The machine stops immediately and RL1 (main) is turned OFF.	ACDB (AC drive board) FM2 (developing suction) DCPS2 (DC power supply unit 2) Harness short circuit with the ground Connector connection failure
		F32-04	Check on FM1 (paper exit) rotation and 24V power supply. The FM1 EM signal was abnormal at specified time after turning ON of FM1. At specified time after turning FM1 OFF and ON again, the FM1 EM signal is still abnormal and an abnormal detection signal (24V off) is detected.		ADUSDB (ADU stand drive board) FM1 (paper exit) DCPS2 (DC power supply unit 2) Connector connection failure
		F32-05	Check on blown fuse of FM1 (paper exit) in ADUSB. The FM1 EM signal was abnormal at specified time after turning ON of FM1. At specified time after turning FM1 OFF and ON again, the FM1 EM signal is still abnormal and an abnormal detection signal (blown fuse) is detected.		
		F32-06	Check on FM1 (paper exit) rotation. The FM1 EM signal was abnormal at specified time after turning ON of FM1. At specified time after turning FM1 OFF and ON again, the FM1 EM signal is still abnormal and an abnormal detection signal (24V off/blown fuse) is not detected.		
		F32-07	FM1 (paper exit) EM signal becomes faulty after completion of printing.	Error code is not displayed on operation panel. It is displayed only on data collection and list output.	

	Classification	Warning Code	Cause	Machine response	Estimated abnormal parts
Main body	ADU stand motor abnormality	F33-01	M12 (registration) rotation speed abnormality. An abnormal detection signal is detected 2 consecutive times (the first signal is ignored) at specified time after turning ON of M12.	The machine stops immediately and RL1 (main) is turned OFF.	M12 (registration) Connector connection failure
		F33-02	Check on blown fuse of M5 (paper reverse exit) in ADUSDB. When M5 which has been OFF is turned ON, an abnormal detection signal (blown fuse) is detected.	If there is a paper in copying process when this trouble occurs, the machine stops after completion of copied paper ejection. RL1 (main) is turned OFF.	M5 (paper reverse exit) ADUSDB (ADU stand drive board) Harness short circuit with the ground Connector connection failure
		F33-03	Check on blown fuse of M9 (transfer) in ADUSDB. When M9 which has been OFF is turned ON, an abnormal detection signal (blown fuse) is detected.		M9 (transfer) ADUSDB (ADU stand drive board) Harness short circuit with the ground Connector connection failure
		F33-04	Check on blown fuse of M10 (paper exit) in PRCB. When M10 which has been OFF is turned ON, an abnormal detection signal (blown fuse) is detected.		M10 (paper exit) PRCB (printer control board) Harness short circuit with the ground
		F33-05	Check on blown fuse of M16 (web drive) in PRCB and 24 V power supply. When M16 which has been OFF is turned ON, an abnormal detection signal (blown fuse/24 V off) is detected.		DCPS2 (DC power supply unit 2)
		F33-06	Check on blown fuse of M16 (web drive) in PRCB. When M16 which has been OFF is turned ON, abnormal detection signal (24 V off) detected blown fuse in normal condition.		M16 (Web drive) PRCB (printer control board)

	Classification	Warning Code	Cause	Machine response	Estimated abnormal parts
Main body	Too high fixing temperature abnormality	F34-01	TH1 (fixing temperature 1) high temperature detection (by software). TH1 has detected 210°C or more five consecutive times at intervals of 1 second.	The machine stops immediately. RL1 (main) is turned OFF.	PRCB (printer control board) ACDB (AC drive board) L2 (fixing heater lamp 1) L3 (fixing heater lamp 2) L4 (fixing heater lamp 3) TH1 (fixing temperature 1) TH2 (fixing temperature 2) TH3 (fixing temperature 3) TH4 (fixing temperature 4)
		F34-02	TH3 (fixing temperature 3) high temperature detection (by software). TH3 has detected 230°C or more five consecutive times at intervals of 1 second.		
		F34-03	TH1 (fixing temperature 1) high temperature detection (by hard ware). An abnormal state of fixing abnormality detection signal 1 is detected.		
		F34-04	TH3 (fixing temperature 3) high temperature detection (by hard ware). An abnormal state of fixing abnormality detection signal 4 is detected.		
	Too low fixing temperature abnormality	F35-01	TH1 (fixing temperature 1) low temperature detection (by software). TH1 does not detect 50°C or higher when specified time has passed since fixing ON control started at SW1 (main) ON.		
		F35-02	TH3 (fixing temperature 3) low temperature detection (by software). TH3 does not detect 50°C or higher when specified time has passed since fixing ON control started at SW1 (main) ON.		
	Fixing sensor abnormality	F36-01	TH1 (fixing temperature 1) high temperature detection (for a long time by software). TH1 has detected 200°C or higher 30 consecutive times at intervals of 1 second.		
		F36-02	TH3 (fixing temperature 3) high temperature detection (for a long time by software). TH3 (fixing temperature 3) has detected 220°C or higher 30 consecutive times at intervals of 1 second.		
		F36-03	TH1 (fixing temperature 1) low temperature detection (by hardware). Underheating (-6°C or less) was detected for TH1 output voltage by the comparator circuit.		

	Classification	Warning Code	Cause	Machine response	Estimated abnormal parts
Main body	Fixing sensor abnormality	F36-04	TH3 (fixing temperature 3) low temperature detection (by hardware). Underheating (-6°C or less) was detected for TH3 output voltage by the comparator circuit.	The machine stops immediately. RL1 (main) is turned OFF.	PRCB (printer control board) ACDB (AC drive board) L2 (fixing heater lamp 1) L3 (fixing heater lamp 2) L4 (fixing heater lamp 3) TH1 (fixing temperature 1) TH2 (fixing temperature 2) TH3 (fixing temperature 3) TH4 (fixing temperature 4)
		F36-05	TH2 (fixing temperature 2) abnormality detection (by hardware). Underheating (-6°C or less) or overheating (240.5°C or more) was detected for TH2 output voltage by the comparator circuit.		
		F36-06	TH4 (fixing temperature 4) abnormality detection (by hardware). Underheating (-6°C or less) or overheating (240.5°C or more) was detected for TH4 output voltage by the comparator circuit.		
	Scanner abnormality	F41-01	Check on excess over M13 (scanner drive) movement time limit and 24V power supply. PS5 (scanner HP) or PS7 (ADF brake) is not turned ON within specified time after start of HP search operation, or an M13 abnormal detection signal (24V off) is detected.		SCDB (scanner drive board) M13 (scanner drive) PS4 (scanner return) PS5 (scanner HP) PS6 (original HP) PS7 (ADF brake) DCPS2 (DC power supply unit 2) Harness short circuit with the ground Connector connection failure
		F41-02	Check on blown fuse of M13 (scanner drive) in SCDB. PS5 (scanner HP) or PS7 (ADF brake) is not turned ON within specified time after start of HP search operation, or an M13 abnormal detection signal (blown fuse) is detected.		
		F41-03	Check on excess over M13 (scanner drive) movement time limit. PS5 (scanner HP) or PS7 (ADF brake) is not turned ON within specified time after start of HP search operation, or an M13 abnormal detection signal (24 V off/blown fuse) is not detected.		
		F41-04	Check on excess over M13 (scanner drive) movement time limit and 24V power supply. During HP search operation, PS5 (scanner HP) is not turned ON within specified time after turning ON of PS7 (ADF brake). An M13 abnormal detection signal (24V off) is detected.		

	Classification	Warning Code	Cause	Machine response	Estimated abnormal parts
Main body	Scanner abnormality	F41-05	Check on blown fuse of M13 (scanner drive) in SCDB. During HP search operation, PS5 (scanner HP) is not turned ON within specified time after turning ON of PS7 (ADF brake). An M13 abnormal detection signal (blown fuse) is detected.	The machine stops immediately. RL1 (main) is turned OFF.	SCDB (scanner drive board) M13 (scanner drive) PS4 (scanner return) PS5 (scanner HP) PS6 (original HP) PS7 (ADF brake) DCPS2 (DC power supply unit 2) Harness short circuit with the ground Connector connection failure
		F41-06	Check on excess over M13 (scanner drive) movement time limit. During HP search operation, PS5 (scanner HP) is not turned ON within specified time after turning ON of PS7 (ADF brake). An M13 abnormal detection signal (24 V off/blown fuse) is not detected.		
		F41-09	After original scanning, PS7 (ADF brake) is turned ON before PS5 (scanner HP) is turned ON.		SCDB (scanner drive board) PS5 (scanner HP) PS7 (ADF brake) M13 (scanner drive)
	Write abnormality	F41-10	Check on M17 (polygon) rotation speed abnormality and 24V power supply. The M17 lock signal is not detected within specified time after an attempt is made to change the M17 speed. The abnormal detection signal (24V off) is detected.		PMDB (polygon motor drive board) PRCB (printer control board) M17 (polygon) Connector connection failure
		F41-11	Check on M17 (polygon) rotation speed abnormality. The M17 lock signal is not detected within specified time after an attempt is made to change the M17 speed. The abnormal detection signal (24V off) is not detected.		

	Classification	Warning Code	Cause	Machine response	Estimated abnormal parts
Main body	Fan abnormality	F42-01	Check on FM 7 (scanner cooling) rotation and 24 V power supply. The FM7 EM signal was abnormal at specified time after turning ON of FM7. At specified time after turning FM7 OFF and ON again, the FM7 EM signal is still abnormal and an abnormal detection signal (24 V off) is detected.	The machine stops immediately. RL1 (main) is turned OFF.	SCDB (scanner drive board) FM7 (scanner cooling) DCPS2 (DC power supply unit 2) Harness short circuit with the ground Connector connection failure
		F42-02	Check on blown fuse of FM7 (scanner cooling) in SCDB. The FM7 EM signal was abnormal at specified time after turning ON of FM7. At specified time after turning FM7 OFF and ON again, the FM7 EM signal is still abnormal and an abnormal detection signal (blown fuse) is detected.		
		F42-03	Check on FM7 (scanner cooling) rotation. The FM7 EM signal was abnormal at specified time after turning ON of FM7. At specified time after turning FM7 OFF and ON again, the FM7 EM signal is still abnormal and an abnormal detection signal (24 V off/blown fuse) is not detected.		
		F42-04	Check on FM5 (write section cooling 1) rotation and 24 V power supply. The FM5 EM signal was abnormal at specified time after turning ON of FM5/8 (write section cooling 1/2). At specified time after turning FM5/8 OFF and ON again, the FM5 EM signal is still abnormal and an abnormal detection signal (24 V off) is detected.		FM5 (write section cooling 1) ICB (image control board) DCPS2 (DC power supply unit 2) ACDB (AC drive board) Harness short circuit with the ground
		F42-05	Check on blown fuse of FM5 (write section cooling 1) in ACDB. The FM5 EM signal was abnormal at specified time after turning ON of FM5/8 (write section cooling 1/2). At specified time after turning FM5 OFF and ON again, the FM5 EM signal is still abnormal and an abnormal detection signal (blown fuse) is detected.		

	Classification	Warning Code	Cause	Machine response	Estimated abnormal parts
Main body	Fan abnormality	F42-06	Check on FM5 (write section cooling 1) rotation. The FM5 EM signal was abnormal at specified time after turning ON of FM5/8 (write section cooling 1/2). At specified time after turning FM5 OFF and ON again, the FM5 EM signal is still abnormal and an abnormal detection signal (24 V off/blown fuse) is not detected.	The machine stops immediately. RL1 (main) is turned OFF.	FM5 (write section cooling 1) FM8 (write section cooling 2) ACDB (AC drive board) Harness short circuit with the ground Connector connection failure
		F42-07	At the start of copying, an FM5 (write section cooling 1) abnormal detection signal is detected.		
		F42-08	Check on FM8 (write section cooling 2) rotation and 24 V power supply. The FM8 EM signal was abnormal at specified time after turning ON of FM5/8 (write section cooling 1/2). At specified time after turning FM8 OFF and ON again, the FM8 EM signal is still abnormal and an abnormal detection signal (24 V off) is detected.		DCPS2 (DC power supply unit 2) ACDB (AC drive board) FM5 (write section cooling 1) FM8 (write section cooling 2) Harness short circuit with the ground Connector connection failure
		F42-09	Check of blown fuse of FM8 (write section cooling 2) in ACDB. The FM8 EM signal was abnormal at specified time after turning ON of FM5/8 (write section cooling 1/2). At specified time after turning FM8 OFF and ON again, the FM8 EM signal is still abnormal and an abnormal detection signal (blown fuse) is detected.		
		F42-10	Check on FM8 (write section cooling 2) rotation. The FM8 EM signal was abnormal at specified time after turning ON of FM5/8 (write section cooling 1/2). At specified time after turning FM8 OFF and ON again, the FM8 EM signal is still abnormal and an abnormal detection signal (24 V off/blown fuse) is not detected.		
		F42-11	At the start of copying, an FM8 (write section cooling 2) abnormal detection signal is detected.		

	Classification	Warning Code	Cause	Machine response	Estimated abnormal parts
Main body	Fan abnormality	F42-12	Check on FM12 (main body cooling 4) rotation and 24 V power supply. The FM12 EM signal was abnormal at specified time after turning ON of FM12. At specified time after turning FM12 OFF and ON again, the FM12 EM signal is still abnormal and an abnormal detection signal (24 V off) is detected.	The machine stops immediately. RL1 (main) is turned OFF.	DCPS2 (DC power supply unit 2) ACDB (AC drive board) FM12 (main body cooling 4) Breaking of harness Connector connection failure
		F42-13	Check on blown fuse of FM12 (main body cooling 4) in ACDB. The FM12 EM signal was abnormal at specified time after turning ON of FM12. At specified time after turning FM12 OFF and ON again, the FM12 EM signal is still abnormal and an abnormal detection signal (blown fuse) is detected.		
		F42-14	Check on FM12 (main body cooling 4) rotation. The FM12 EM signal was abnormal at specified time after turning ON of FM12. At specified time after turning FM12 OFF and ON again, the FM12 EM signal is still abnormal and an abnormal detection signal (24 V off/ blown fuse) is not detected.		
		F42-16	Check on FM9 (polygon cooling) rotation and 24 V power supply. The FM9 EM signal was abnormal at specified time after turning ON of FM9. At specified time after turning FM9 OFF and ON again, the FM9 EM signal is still abnormal and an abnormal detection signal (24 V off) is detected.		DCPS2 (DC power supply unit 2) ACDB (AC drive board) FM9 (polygon cooling) Breaking of harness Connector connection failure
		F42-17	Check on blown fuse of FM9 (polygon cooling) in ACDB. The FM9 EM signal was abnormal at specified time after turning ON of FM9. At specified time after turning FM9 OFF and ON again, the FM9 EM signal is still abnormal and an abnormal detection signal (blown fuse) is detected.		

	Classification	Warning Code	Cause	Machine response	Estimated abnormal parts
Main body	Fan abnormality	F42-18	During image write, APC cannot be performed for sub-scanning beam correction. The 12 VDC power for driving the laser is not supplied. The laser does not turn ON due to defective laser, or MPC value is different. The index sensor cannot detect the laser because the polygon mirror does not rotate, the index sensor is displaced, or the index sensor is defective.	The machine stops immediately. RL1 (main) is turned OFF.	DCPS2 (DC power supply unit 2) ACDB (AC drive board) FM9 (polygon cooling) Breaking of harness Connector connection failure
		F42-19	At the start of copying, an FM9 (polygon cooling) abnormal detection signal is detected.		
	Image control abnormality	E46-01	During image write, APC cannot be performed for sub-scanning beam correction. The 12 VDC power for driving the laser is not supplied. The laser does not turn ON due to defective laser, or MPC value is different. The index sensor cannot detect the laser because the polygon mirror does not rotate, the index sensor is displaced, or the index sensor is defective.	If copy operation is being performed, the machine stops after paper ejection. The RL1 (main) is turned OFF.	Write section ICB (image control board) power connector
		E46-02	Illegal address of FIFO for scanner. During image read, image data compression is not completed normally.		ICB (image control board) Damage to gate array
		E46-03	Illegal address of FIFO for printer. During image write, image data decompression is not completed normally.		
		E46-05	The FIFO of the compression/expansion chip caused an error interrupt.		
		E46-06	Decompression error.		
		E46-08	When APC is performed, the index sensor output does not change.		Write section ICB (image control board) power connector
		E46-12	Compression of the read image and decompression in the page memory are not completed within the specified time after negation of SVV.		ICB (image control board)

	Classification	Warning Code	Cause	Machine response	Estimated abnormal parts
Main body	Image control abnormality	E46-13	During image read, image data compression from the scanner to the memory is not completed within the specified time. Image data decompression from the scanner to the page memory is not completed within the specified time. SVV is not detected within the specified time.	If copy operation is being performed, the machine stops after paper ejection. The RL1 (main) is turned OFF.	PRCB (printer control board) ICB (image control board) RADF
		E46-14	During image write, image data expansion from the memory to the printer is not completed within the specified time. Image data output from the page memory to the printer is not completed within the specified time. PVV is not detected within the specified time.		PRCB (printer control board) ICB (image control board)
		E46-15	During image write, improper processing was performed. For example, the decompression device was accessed although there was no resource.		ICB (image control board) ICB program
		E46-16	During image read, improper processing was performed. For example, the compression device was accessed although there was no resource.		
		E46-17	During image processing, a filter coefficient could not be generated properly.		
		E46-19	During access to the memory device, a software error was detected.		
		E46-21	Decompression from the memory to the page memory is not completed within the specified time. Compression from the page memory to the memory is not completed within the specified time. Compressed data transfer between memories is not completed within the specified time.		PRCB (printer control board) ICB program

	Classification	Warning Code	Cause	Machine response	Estimated abnormal parts
Main body	Image control abnormality	E46-23	During image read, SVV is not turned OFF within the specified time and therefore preparation for next page scanning cannot be started.	If copy operation is being performed, the machine stops after paper ejection. The RL1 (main) is turned OFF.	ICB (image control board)
		E46-24	Shading correction error (GA error)		ICB (image control board) ICB program
		E46-25	AOC/AGC error • The light blocking cover and lens cover are removed from the read section. • The A/D conversion board connector is disconnected. • The power cable of A/D conversion board is disconnected. • The IC protector on the A/D conversion board is blown out. • The exposure lamp intensity is excessive. • The exposure lamp does not light.		ADB (A/D conversion board) L1 (exposure lamp)
		E46-26	Correction data saved on a resolution basis is not found.	Error code is not displayed on operation panel. It is displayed only on data collection and list output.	ICB (image control board)
		E46-27	The density correction ¥ curve cannot be generated properly.		
		E46-29	Calibration start error.	If copy operation is being performed, the machine stops after paper ejection.	ICB (image control board) ICB program
		E46-30	Calibration end error		
		E46-31	An attempt was made to perform APC initial sampling before completion of MPC.		
		E46-32	An attempt was made to perform MPC during APC.	The RL1 (main) is turned OFF.	
		E46-33	An attempt was made to perform sub-scan beam correction before completion of APC or MPC.		
		E46-34	An attempt was made to perform sub-scan beam interval correction although the image write clock was abnormal.		
		E46-35	Dual page memory area error Due to the image area abnormality on the memory, image is not decompressed on the memory		

	Classification	Warning Code	Cause	Machine response	Estimated abnormal parts
Main body	Image control abnormality	E46-36	PVV is ON before initial APC start processing ends	If copy operation is being performed, the machine stops after paper ejection.	M17 (polygon) ICB (image control board) PRCB (printer control board) PRCB program
		E46-40	Hard disk initialize fault or poor connection of connector.	The machine stops immediately and RL1 (main) is turned OFF.	ICB (image control board) ICB program HDD (Hard disk drive)
		E46-41	Job information could not be stored on the hard disk.		
		E46-42	A route could not be opened during hard disk job automatic deletion.		
		E46-43	Hard disk access fault, hard disk fault, or poor connection of connector.		ICB (image control board) ICB program HDD (hard disk drive)
		E46-50	Communication error was detected during tandem operation.		ICB (Image Control Board) ICB program Tandem cable
		E46-51	Communication error was detected while tandem image data is transfering.		
		E46-60	Adjustment of the sub-scan beam interval failed for the following reason: • Defective index sensor • M24 (laser correction) driving failure • Abnormal 12 VDC power supply • M17 (polygon) driving failure	Error code is not displayed on operation panel. It is displayed only on data collection and list output.	Write section
		E46-61	Scanning started before completion of original auto skew correction. (Auto skew correction was not in time.)		DFCB (RADF control board) PS311(original mis-centering detection 1) PS312(original mis-centering detection 2)
		E46-62	Printing started before correction of auto paper mis-centering. (Auto mis-centering correction was not in time.)		PS1(paper miscentering)
		E46-63	AGC was retried because of reduction in exposure lamp intensity, but no error occurred.		L1(exposure lamp)
		E46-64	The PWM ¥ curve could not be generated properly.		TCSB (toner control sensor board)
		E46-66	Shift amount abnormality at time of repeating (When setting the paper width manually or automatic). The shift amount is negative at time of repeating.		ICB program

	Classification	Warning Code	Cause	Machine response	Estimated abnormal parts
Main body	Image control abnormality	E46-80	The message queue was insufficient or destroyed.	If copy operation is being performed, the machine stops after paper ejection.	ICB (image control board)
		E46-81	The parameter value is too large.		
		E46-82	The ID of the message queue source task is undefined.		
		E46-83	The message reception event is undefined.		
		E46-90	The access to the memory is illegal.		ICB (image control board) DIMM contact failure
		E46-91	The header read address is illegal.		ICB (image control board)
	Communication abnormality	E49-00	Video I/F board failure	The machine stops immediately. RL1 (main) is turned OFF.	Video I/F Video I/F program
		E49-01	ICB (Image control board) haven't heard from Video I/F board recently.		Video I/F
		E49-02	DMA (Direct Memory Access) transfer failure.		
		E50-01	Check on I/O initial communication in PRCB. Main unit drive serial input error 1. Serial data is not received from the main body drive section within specified time after reception of power-on ACK.		PRCB (printer control board)
		E50-02	Main unit drive serial input error 2. Serial data is not received from the main body drive section within specified time after reception of power-on ACK.		
		E50-03	Main unit drive serial input error 3. Serial data is not received from the main body drive section within specified time after reception of power-on ACK.		
		E50-04	Main unit drive serial input error 4. Serial data is not received from the main body drive section within specified time after reception of power-on ACK.		
		E50-05	Check on communication abnormality among boards related with printer engine. Drive board communication reception error detection fault. A reception error occurred during reception of drive board serial data, or a data checksum error or ID information error occurred four consecutive times although a resent request had been issued three times.		PRCB (printer control board) Drive boards Connector connection failure

	Classification	Warning Code	Cause	Machine response	Estimated abnormal parts
Main body	Communication abnormality	E50-10	Check on initial communication between ICB and PRCB. Image processing board communication error. Initial data is not received from ICB (image control board) within specified time after power-on.	The machine stops immediately. RL1 (main) is turned OFF.	PRCB (printer control board) ICB (image control board) ICB IFB (ICB I/F board) Connector connection failure
		E50-11	Check on communication abnormality between ICB and PRCB. Image control board communication serial reception error detection fault.		ICB (image control board)
	Fan abnormality	F52-01	Check on FM3/4 (main body cooling 1/2) rotation and 24V power supply. The FM3 (main body cooling 1) EM signal and FM4 (main body cooling 2) EM signal were abnormal at specified time after turning ON of FM3 and FM4. At specified time after turning FM3 and FM4 OFF and ON again, the FM3 EM signal and FM4 EM signal are still abnormal and an abnormal detection signal (24 V off) is detected.		ACDB (AC drive board) FM3 (main body cooling 1) FM4 (main body cooling 2) DCPS2 (DC power supply unit 2)
		F52-02	Check on FM3/4 (main body cooling 1/2) rotation. The FM3 (main body cooling 1) EM signal and FM4 (main body cooling 2) EM signal were abnormal at specified time after turning ON of FM3 and FM4. At specified time after turning FM3 and FM4 OFF and ON again, the FM3 EM signal and FM4 EM signal are still abnormal and an abnormal detection signal (24 V off) is not detected.		ACDB (AC drive board) FM3 (main body cooling 1) FM4 (main body cooling 2) PRCB (printer control board) Connector connection failure
		F52-03	Check on blown fuse of FM3 (main body cooling 1) ACDB. The FM3 EM signal was abnormal at specified time after turning ON of FM3. At specified time after turning FM3 OFF and ON again, the FM3 EM signal is still abnormal and an abnormal detection signal (blown fuse) is detected.		ACDB (AC drive board) FM3 (main body cooling 1) Harness short circuit with the ground
		F52-04	Check on FM3 (main body cooling 1) rotation. The FM3 EM signal was abnormal at specified time after turning ON of FM3. At specified time after turning FM3 OFF and ON again, the FM3 EM signal is still abnormal and an abnormal detection signal (blown fuse) is not detected.		ACDB (AC drive board) FM3 (main body cooling 1) Connector connection failure

	Classification	Warning Code	Cause	Machine response	Estimated abnormal parts
Main body	Fan abnormality	F52-05	Check on blown fuse of FM4 (main body cooling 2) in ACDB. The FM4 EM signal was abnormal at specified time after turning ON of FM4. At specified time after turning FM4 OFF and ON again, the FM4 EM signal is still abnormal and an abnormal detection signal (blown fuse) is detected.	The machine stops immediately. RL1 (main) is turned OFF.	ACDB (AC drive board) FM4 (main body cooling 2) Harness short circuit with the ground
		F52-06	Check on FM4 (main body cooling 2) rotation. The FM4 EM signal was abnormal at specified time after turning ON of FM4. At specified time after turning FM4 OFF and ON again, the FM4 EM signal is still abnormal and an abnormal detection signal (blown fuse) is not detected.		
		F52-07	Check on FM6 (main body cooling 3) rotation and 24V power supply. The FM6 EM signal was abnormal at specified time after turning ON of FM6. At specified time after turning FM6 OFF and ON again, the FM6 EM signal is still abnormal and an abnormal detection signal (24V off) is detected.		ACDB (AC drive board) FM6 (main body cooling 3) Harness short circuit with the ground Connector connection failure DCPS2 (DC power supply unit 2)
		F52-08	Check on blown fuse of FM6 (main body cooling 3) in ACDB. The FM6 EM signal was abnormal at specified time after turning ON of FM6. At specified time after turning FM6 OFF and ON again, the FM6 EM signal is still abnormal and an abnormal detection signal (blown fuse) is detected.		
		F52-09	Check on FM6 (main body cooling 3) rotation. The FM6 EM signal was abnormal at specified time after turning ON of FM6. At specified time after turning FM6 OFF and ON again, the FM6 EM signal is still abnormal and an abnormal detection signal (24V off/ blown fuse) is not detected.		
		F52-10	At the start of copying, an FM3 (main body cooling 1) or FM4 (main body cooling 2) abnormal detection signal is detected.		ACDB (AC drive board) FM3 (main body cooling 1) FM4 (main body cooling 2)
		F52-11	At the start of copying, an FM6 (main body cooling 3) abnormal detection signal is detected.		ACDB (AC drive board) FM6 (main body cooling 3)

	Classification	Warning Code	Cause	Machine response	Estimated abnormal parts
Main body	Motor abnormality	F53-01	Check on M1 (main) rotation speed abnormality. An abnormal detection signal has been detected two consecutive times (one signal is ignored) at specified time after turning ON of M1.	The machine stops immediately. RL1 (main) is turned OFF.	M1 (main)
	Counter abnormality	F53-02	Check on 24V power supply for total counter. When C (T) (total counter) which has been OFF is turned ON, an abnormal detection signal (blown fuse/ 24 V off) is detected.	Error code is not displayed on operation panel. It is displayed only on data collection and list output. However, the counter does not function.	ACDB (AC drive board) C (T) (total counter) DCPS2 (DC power supply unit 2)
		F53-03	Check on blown fuse of total counter in ACDB. When C (T) (total counter) which has been OFF is turned ON, an abnormal detection signal (blown fuse) is detected. An abnormal detection signal (24 V off) is not detected.		
		F53-04	Check on 24V power supply for key counter. When C (K) (key counter) which has been OFF is turned ON, an abnormal detection signal (blown fuse/ 24 V off) is detected.		ACDB (AC drive board) C (K) (key counter) DCPS2 (DC power supply unit 2)

	Classification	Warning Code	Cause	Machine response	Estimated abnormal parts
Main body	Power supply abnormality	F53-05	Check on blown fuse of key counter in ACDB. When C (K) (key counter) which has been OFF is turned ON, an abnormal detection signal (blown fuse) is detected. An abnormal detection signal (24V off) is not detected.	Error code is not displayed on operation panel. It is displayed only on data collection and list output. However, the counter does not function	ACDB (AC drive board) C (K) (key counter) DCPS2 (DC power supply unit 2)
		F53-06	Check on blown fuse of 12V in ACDB. During serial initial communication, a 12 V blow fuse signal (AC drive) is detected.	The machine stops immediately. RL1 (main) is turned OFF.	PRCB (printer control board) ACDB (AC drive board) DCPS2 (DC power supply unit 2) Connector connection failure
		F53-07	Check on blown fuse of 5V in ACDB. During serial initial communication, a 5 V blow fuse signal (AC drive) is detected.		
		F53-08	Check on 12V power supply in PRCB. A 12V abnormal detection signal is detected on PRCB (printer control board).		
		F53-11	Check on 24V power supply for SD/MC in PRCB. An abnormal detection signal (solenoid/clutch blown fuse) is detected at the time of start. An abnormal detection signal (24V off) is detected.		Solenoids Clutches PRCB (printer control board) Harness short circuit with the ground
		F53-12	Check on blown fuse of SD/MC in PRCB. An abnormal detection signal (solenoid/clutch blown fuse) is detected at the time of start. An abnormal detection signal (24V off) is not detected.		
	Operation panel abnormality	E56-02	Check on initial communication between ICB and OB1. Communication between the ICB (image control board) and OB1 (operation board 1) does not start within specified time after SW1 (main) is turned ON.	Operation panel does not display normally.	ICB (image control board) OB1 (operation board 1) Connector connection failure
		F56-11	When SW1 (main) was turned ON, area which had not been written by ISW was detected in the operation control program (O1).		O1 program
		F56-12	When SW1 (main) was turned ON, area which had not been written by ISW was detected in the operation control program (O2).		O2 program
		F56-13	When SW1 (main) was turned ON, area which had not been written by ISW was detected in the operation control program (O3).		O3 program

	Classification	Warning Code	Cause	Machine response	Estimated abnormal parts
RADF	EDH-5 Abnormality	E60-01	A resend request was received after the main body had sent data in response to the data resend request from EDH-5.	If copy operation is being performed, the machine stops after paper ejection. The RL1 (main) is turned OFF.	ICB (image control board) DFCB (RADF control board) Communication cable
		E60-02	A checksum error or SRGA reception error was detected when data was received in response to the data resend request which had been sent at detection of a checksum error or SRGA reception error (during reception in the serial communication mode).		
		E60-03	No response to initial communication request from main body to RADF for specified time after SW1 (main) is turned ON.		
		F60-11	When SW1 (main) was turned ON, area which had not been written by ISW was detected in the RADF control program.		DFCB (RADF control board) RADF program
		F67-01	PS306 (original registration detection) fault.	If there is a paper in copying process when this jam occurs, the machine stops after completion of copied paper ejection. RL1 (main) is turned OFF.	PS306 (original registration detection)
		F67-02	PS308 (original conveyance detection) fault.		PS308 (original conveyance detection)
		F67-03	PS309 (original reversal detection) fault.		PS309 (original reversal detection)
		F67-04	Non-volatile memory fault.		DFCB (RADF control board)
		F67-05	FM301 (ADF fan) fault.		FM301 (ADF fan)
		F67-06	PS304 (reverse jam detection) fault.		PS304 (reverse jam detection)
		F67-07	PS313 (original exit reverse detection) fault.		PS313 (original exit reverse detection)
		F67-08	M303 (tray up/down drive) fault.		M303 (tray up/down drive)

	Classification	Warning Code	Cause	Machine response	Estimated abnormal parts
FNS	FN-7/ FN-115 abnormality	E70-1	Communication error.	The main body and FNS are stopped immediately. RL1 (main) is turned OFF.	FNS CB (FNS control board) Connector
		E70-2	Start response error.		
		F77-1	The shift unit does not reach the shift position or home position within the specified time.		FNS CB (FNS control board) M2 (roller shift) PS18 (roller shift HP)
		F77-2	PS2 (tray upper limit) or PS7 (staple paper exit upper limit) does not go ON within the specified time after the start of M3(tray up-down) operation.		FNS CB (FNS control board) M3 (tray up-down) PS2 (tray upper limit) PS7 (staple paper exit upper limit)
		F77-3	PS8 (alignment plate/upper HP) does not go OFF within the specified time after the start of M5 (alignment plate/ upper) operation, or does not turn ON after OFF.		FNS CB (FNS control board) RB (relay board) M5 (alignment plate/ upper) PS8 (alignment plate/ upper HP)
		F77-4	M7(paper exit roller) does not reach the prescribed speed within the specified time after the start of its operation.		FNS CB (FNS control board) M7(paper exit roller)
		F77-5	Opening/closing operation is not completed within the specified time after the start of M8(paper exit opening) operation. (PS12(paper exit opening) does not go ON or OFF.)		FNS CB (FNS control board) M8 (paper exit opening) PS12 (paper exit opening)
		F77-6	PS11(stapler movement HP) does not go OFF after the start of M11(stapler movement) operation. Or it does not go ON after OFF.		FNS CB (FNS control board) RB (relay board) M11 (stapler movement) PS11 (stapler movement HP)

	Classification	Warning Code	Cause	Machine response	Estimated abnormal parts
FNS	FN-7/ FN-115 abnormality	F77-7	M4 (stapler rotation) abnormality.	The main body and FNS are stopped immediately. RL1 (main) is turned OFF.	FNS CB (FNS control board) RB (relay board) M4 (stapler rotation)
		F77-8	Stapler/R rotation abnormality.		FNS CB (FNS control board) RB (relay board) PS14 (stapler rotation HP)
		F77-11	PS33 (clincher HP/F) and PS34 (stapler HP/F) do not go ON within the specified time after the start of M23 (clincher/F) and M24(stapler/F) operation.		FNS CB (FNS control board) RB (relay board) M23 (clincher/F) M24 (stapler/F) PS33 (clincher HP/F) PS34 (stapler HP/F)
		F77-12	PS30 (clincher HP/R) and PS31 (stapler HP/R) do not go ON within the specified time after the start of M21 (clincher R) and M22 (stapler R) operation.		FNS CB (FNS control board) RB (relay board) M21 (clincher/R) M22 (stapler/R) PS30 (clincher HP/R) PS31 (stapler HP/R)
		F77-15	M1 (FNS conveyance) does not reach the prescribed speed within the specified time after the start of its operation.		FNS CB (FNS control board) M1(FNS conveyance)
		F77-21	PS23 (stapling and folding stopper HP) does not go ON within the specified time after M14(stapling and folding stopper) starts operation of HP detection.		FNS CB (FNS control board) RB (relay board) M14 (stapling and folding stopper) PS23 (stapling and folding stopper HP)
		F77-22	PS24 (alignment plate/lower HP) does not go ON within the specified time after M15(alignment plate/lower) starts operation of HP detection.		FNS CB (FNS control board) RB (relay board) M15 (alignment plate/ lower) PS24 (alignment plate/ lower HP)
		F77-23	PS21(stapling and folding stopper release HP) does not go ON within the specified time after M17(stapling and folding stopper release) starts operation of HP detection.		FNS CB (FNS control board) RB (relay board) M17 (stapling and folding stopper release) PS21 (stapling and folding stopper release HP)
		F77-24	PS27(folding stopper HP) does not go ON within the specified time after M18(folding stopper) starts operation of HP detection.		FNS CB (FNS control board) M18 (folding stopper) PS27 (folding stopper HP)

	Classification	Warning Code	Cause	Machine response	Estimated abnormal parts
FNS	FN-7/ FN-115 abnormality	F77-25	PS22(folding knife HP) does not go ON within the specified time after M19(folding knife) starts operation of HP detection.	The main body and FNS are stopped immediately. RL1 (main) is turned OFF.	FNS CB (FNS control board) M19 (folding knife) PS22 (folding knife HP)
		F77-26	M20(folding conveyance) does not reach the prescribed speed within the specified time after the start of its operation.		FNS CB (FNS control board) M20 (folding conveyance)
TU	TMG-2 abnormality	F77-31	M101(conveyance) does not reach the prescribed speed within the specified time after the start of its operation.		TUDB (TU drive board) M101 (conveyance)
		F77-32	PS106(trimmer HP) does not turn ON within the specified time after M102(trimmer) starts operation of HP detection.		TUDB (TU drive board) M102 (trimmer) PS106 (trimmer HP)
		F77-33	PS103(stopper HP) does not turn ON within the specified time after M103(stopper) starts operation of HP detection.		TUDB (TU drive board) M103 (stopper) PS103 (stopper HP)
		F77-34	PS104(stopper release HP) does not turn ON within the specified time after M104(stopper release) starts operation of HP detection.		TUDB (TU drive board) M104 (stopper release) PS104 (stopper release HP)
		F77-35	PS105(press HP) does not turn ON within the specified time after M105(press) starts operation of HP detection.		TUDB (TU drive board) M105 (press) PS105 (press HP)
		F77-36	PS112(pusher) does not turn ON within the specified time after M107(pusher) starts operation of HP detection.		TUDB (TU drive board) M107 (pusher) PS112 (pusher)
		F77-37	PS110(upper limit) does not turn ON within the specified time after M106(holder) starts operation of HP detection.		TUDB (TU drive board) M106 (holder) PS110 (upper limit)
PI	Cover Inserter C abnormality	F77-41	PS203 (sheet tray lower limit) or PS204 (sheet tray upper limit) does not go ON within the specified time after the start of M201(sheet tray) operation.		FNS CB (FNS control board) DB(PI drive board) M201(sheet tray) PS203(sheet tray lower limit) PS204(sheet tray upper limit)

	Classification	Warning Code	Cause	Machine response	Estimated abnormal parts
PZ	ZK-2 abnormality	F77-52	PS3 (1st stopper HP) is not turned on after the specified time has elapsed since M2 (1st stopper) started the HP search operation.	The main body, FNS and PZ are stopped immediately. RL1 (main) is turned OFF.	PZCB (PZ control board) M2 (1st stopper) PS3 (1st stopper HP)
		F77-53	PS2 (2nd stopper HP) is not turned on after the specified time has elapsed since M3 (2nd stopper) started the HP search operation.		PZCB (PZ control board) M3 (2nd stopper) PS2 (2ndt stopper HP)
PU/PZ	PK-3, ZK-2 abnormality	F77-54	Punching operation has not finished within the specific time after MC1(punch clutch) is turned ON.	The main body, FNS and PK are stopped immediately. RL1 (main) is turned OFF.	PUCB(PU control board) PZCB (PZ control board) M4(punch) MC1(punch clutch) PS5(punch HP)
		F77-55	PS4(puncher) is not turned ON within the specific time after M5(punch unit shift) starts HP searching.		PUCB(PU control board) PZCB (PZ control board) M5(punch shift) PS4(punch shift HP)
PZ	ZK-2 abnormality	F77-56	The M10 (conveyance motor fan) EM signal is abnormal at specified time after the M10 is turned ON, and the condition still persists even after three tries since the M10 was turned OFF.		PZCB (PZ control board) M10 (conveyance motor fan)
FNS	FNS abnormality	F77-61	The cancellation of the lock detection signal is not detected at specified time after FM1/2/3 (cooling 1/2/3) are turned ON, and the condition still persists ever after three tries since the FM 1/2/3 were turned OFF.	The main body and FNS are stopped immediately. RL1 (main) is turned OFF.	FM1 (cooling 1) FM2 (cooling 2) FM3 (cooling 3)
		F77-91	Communication abnormality in FNS CB(FNS control board) when sub-CPU receives data.		FNS CB (FNS control board)
		F77-92	Communication abnormality in FNS CB(FNS control board) when main CPU receives data.		

	Classification	Warning Code	Cause	Machine response	Estimated abnormal parts
Main body	Communication abnormality	F80-01	Check on initial communication between ICB and PRCB. No response from PRCB (printer control board) for specified time after SW1 (main) is turned ON.	The main body is stopped immediately and RL1 (main) is turned OFF.	PRCB (printer control board)
		F80-02	Check on communication abnormality between ICB and PRCB. Communication abnormality in PRCB (printer control board).		CB (image control board) ICB IFB (ICB I/F board) Connector connection failure
		F80-03	Communication abnormality in operation unit.		OB1 (operation board 1)
ISW	ISW abnormality	F80-10	When SW1 (main) was turned ON, an area which had not been written by ISW was detected in the printer control program.		C1 program
		F80-11			C2 program
		F80-12			C3 program
		F80-13			C4 program
		F80-21	When SW1 (main) was turned ON, an area which had not been written by ISW was detected in the video I/F control program.		Video I/F program
		F80-30	When data is transferred by ISW, normal header information cannot be received within the specified time.		Printer cable PC parallel port setting
		F80-31	When data is transferred by ISW, a checksum error or header error was detected in the downloaded data.		Printer cable Program file error
		F80-32	When data is transferred by ISW, data cannot be written to the flash ROM properly.		Printer cable Program transfer destination board.
Main body	ADU abnormality	E90-01	Check on initial communication between ADUSDB and PRCB. ADU drive serial input error 1. Serial data cannot be received from ADUSDB (ADU stand drive board) (ID 0) within specified time when SW1 (main) was turned ON.		ADUSDB (ADU stand drive board) PRCB (printer control board) Connector connection failure
		E90-02	Check on communication abnormality between ADUSDB and PRCB. ADU drive serial input error 1. Serial data cannot be received from ADUSDB (ADU stand drive board) (ID 7) within specified time when SW1 (main) was turned ON.		
		F93-01	Check on blown fuse of 12 V in ADUSDB. -5 V and 12 V blown fuse signal is detected during serial initial communication.		

	Classification	Warning Code	Cause	Machine response	Estimated abnormal parts
Main body	ADU abnormality	F93-02	Check on blown fuse of -5 V in ADUSDB. -5 V blown fuse signal is detected during serial initial communication. At this time 12V blown fuse signal is not detected.	The main body is stopped immediately and RL1 (main) is turned OFF.	ADUSDB (ADU stand drive board) PRCB (printer control board) Connector connection failure
		F93-03	Check on blown fuse of M8 (ADU conveyance) in ADUSDB. When M8 which has been OFF is turned ON, an abnormal detection signal (blown fuse) is detected.	If copy operation is being performed, the machine stops after paper ejection. The RL1 (main) is turned OFF.	M8 (ADU conveyance) ADUSDB (ADU stand drive board) Harness short circuit with the ground Connector connection failure
		F93-04	Check on blown fuse of M7 (ADU reverse) in ADUSDB. When M7 which has been OFF is turned ON, an abnormal detection signal (blown fuse) is detected.		M7 (ADU reverse) ADUSDB (ADU stand drive board) Harness short circuit with the ground Connector connection failure
		F93-05	Check on 24 V power supply. An abnormal detection signal (blown solenoid/clutch fuse) is detected at the time of start. An abnormal detection signal (24 V off) is detected.	The machine stops immediately and RL1 (main) is turned off.	Solenoids Clutches DCPS2 (DC power supply unit 2) Connector connection failure Harness short circuit with the ground
		F93-06	An abnormal detection signal (blown solenoid/clutch fuse) is detected at the time of start. An abnormal detection signal (24 V off) is not detected.		
		F95-01	The FM10/11 (ADU cooling 1/2) EM signal was abnormal at specified time after turning ON of FM10/11. At specified time after turning FM10/11 OFF and ON again, the FM10/11 EM signal is still abnormal and an abnormal detection signal (24 V off) is detected.		DCPS2 (DC power supply unit 2) ADUSDB (ADU stand drive board) FM10 (ADU cooling 1) FM11 (ADU cooling 2) Harness short circuit with the ground Connector connection failure
		F95-02	The FM10/11 (ADU cooling 1/2) EM signal was abnormal at specified time after turning ON of FM10/11. At specified time after turning FM10/11 OFF and ON again, the FM10/11 EM signal is still abnormal and an abnormal detection signal (blown fuse) is detected.		

	Classification	Warning Code	Cause	Machine response	Estimated abnormal parts
Main body	ADU abnormality	F95-03	Check on rotation of FM10/11 (ADU cooling 1/2). The FM10/11 EM signal was abnormal at specified time after turning ON of FM10/11. At specified time after turning FM10/11 OFF and ON again, the FM10/11 EM signal is still abnormal and an abnormal detection signal (24 V off/blown fuse) is not detected.	The machine stops immediately and RL1 (main) is turned off.	DCPS2 (DC power supply unit 2) ADUSDB (ADU stand drive board) FM10 (ADU cooling 1) FM11 (ADU cooling 2) Harness short circuit with the ground Connector connection failure

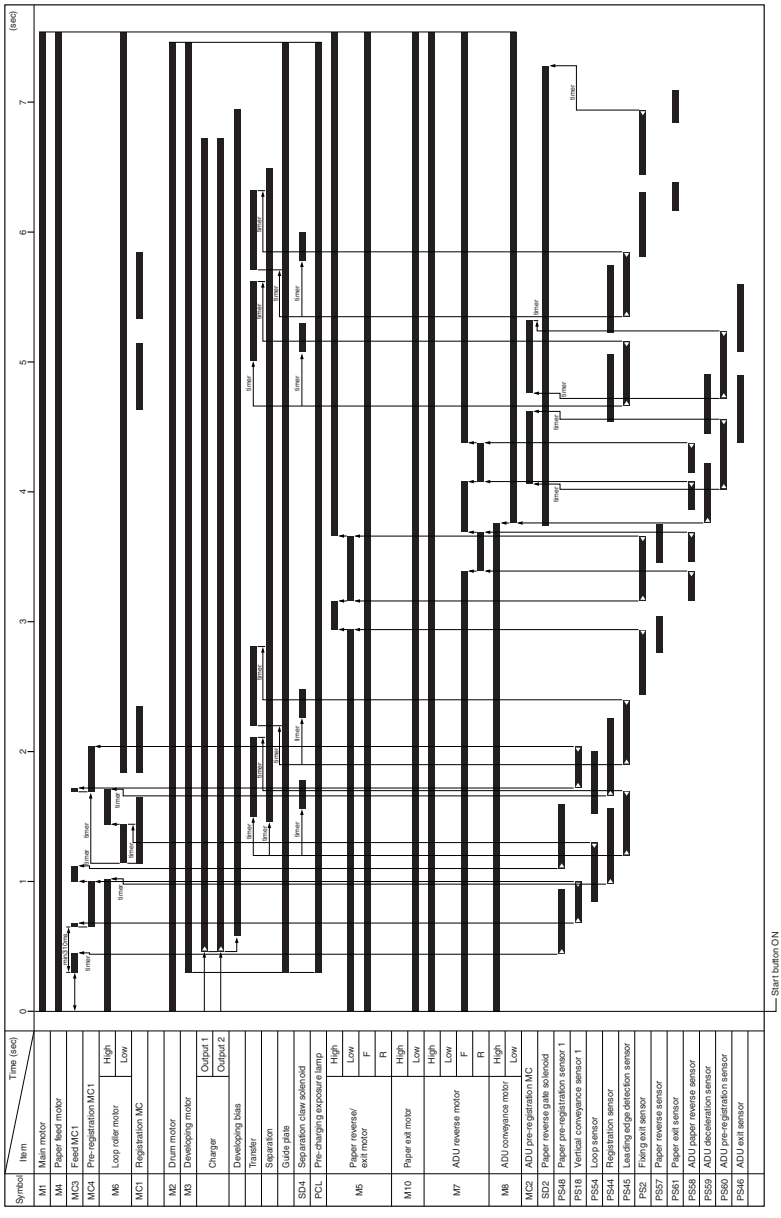
When any one of the following abnormality occurs, the user can disconnect the faulty unit temporarily. When a warning code is displayed, press the RESET button and turning the main switch OFF/ON according to the LCD message allows you to use the machine until you turn the main switch OFF/ON again.

Warning code	Cause	Unit to be disconnected
F18-10	Tray 1 lifting abnormality	Tray 1
F18-20	Tray 2 lifting abnormality	Tray 2
F18-30	Tray 3 lifting abnormality	Tray 3
F13-02	LT paper feed motor abnormality	Tray 4
F18-40	Tray 4 (LCT) lifting abnormality	
F46-40 to 43	HDD abnormality	HDD
F67-01 to 08	DF drive abnormality	RADF
F77-24 to 26	Folding/stapling abnormality	Folding / stapling unit
F77-31 to 37	Trimmer drive abnormality	TU
F77-41	PI abnormality	PI
F77-54 to 55	PU abnormality	PU
F77-52 to 56	PZ abnormality	PZ

TIMING CHART

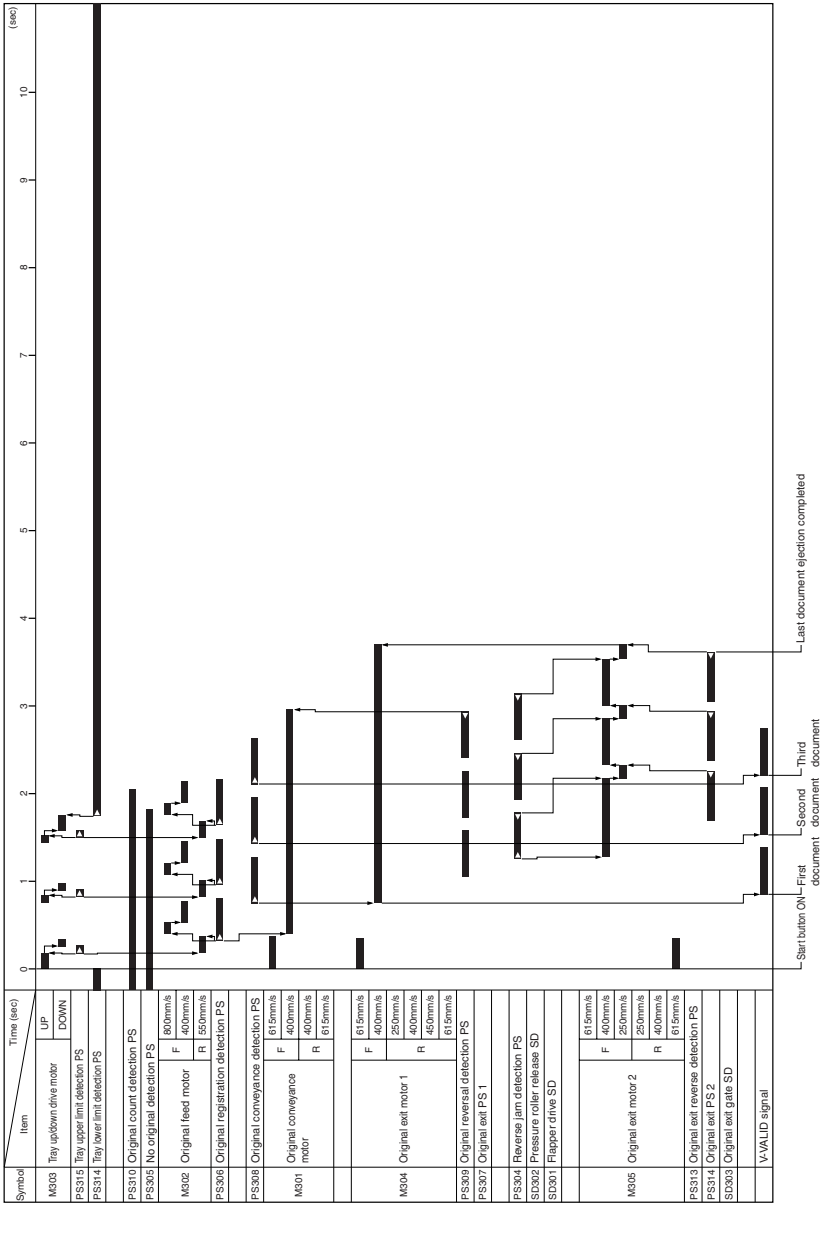
[1] Di850 Timing Chart

A4, life size, Double-sided copy, 2 sets, Tray1



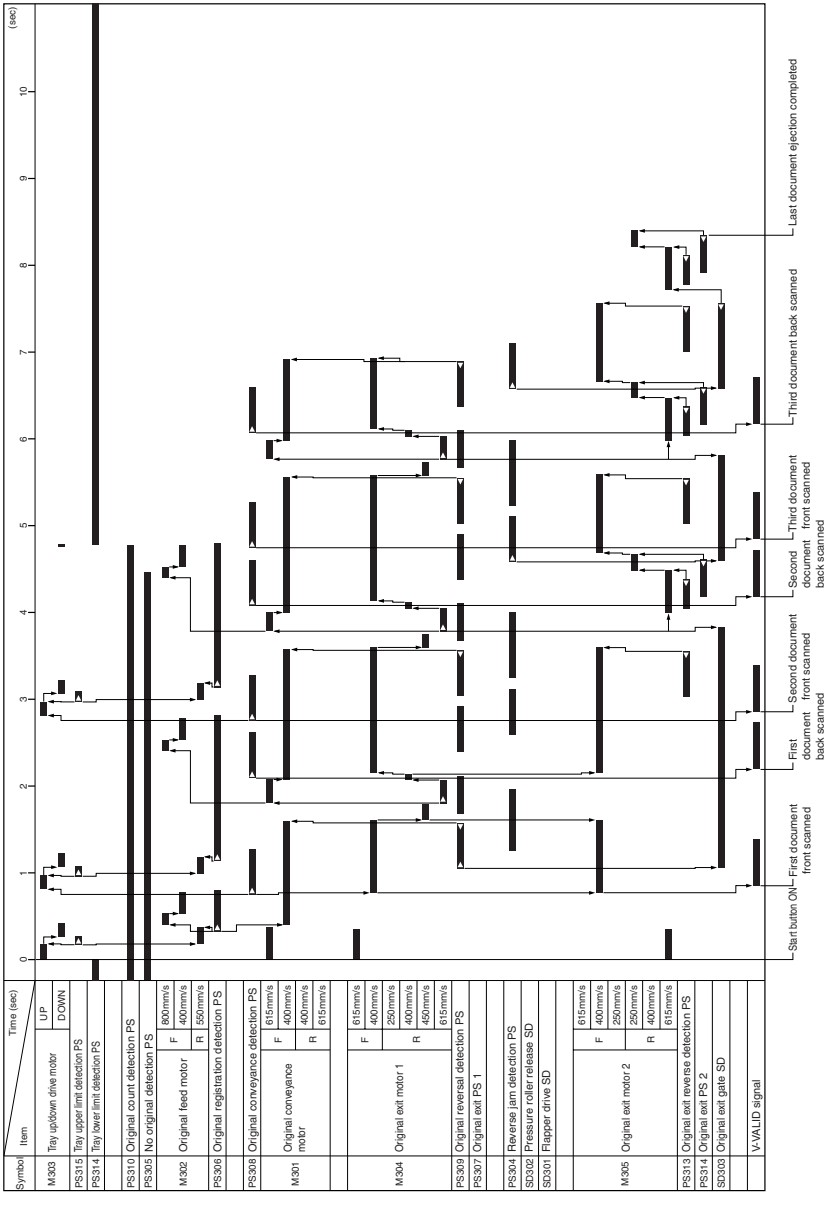
[2] EDH-5 Timing Chart (1)

A4, Single-side originals, 3 sheets



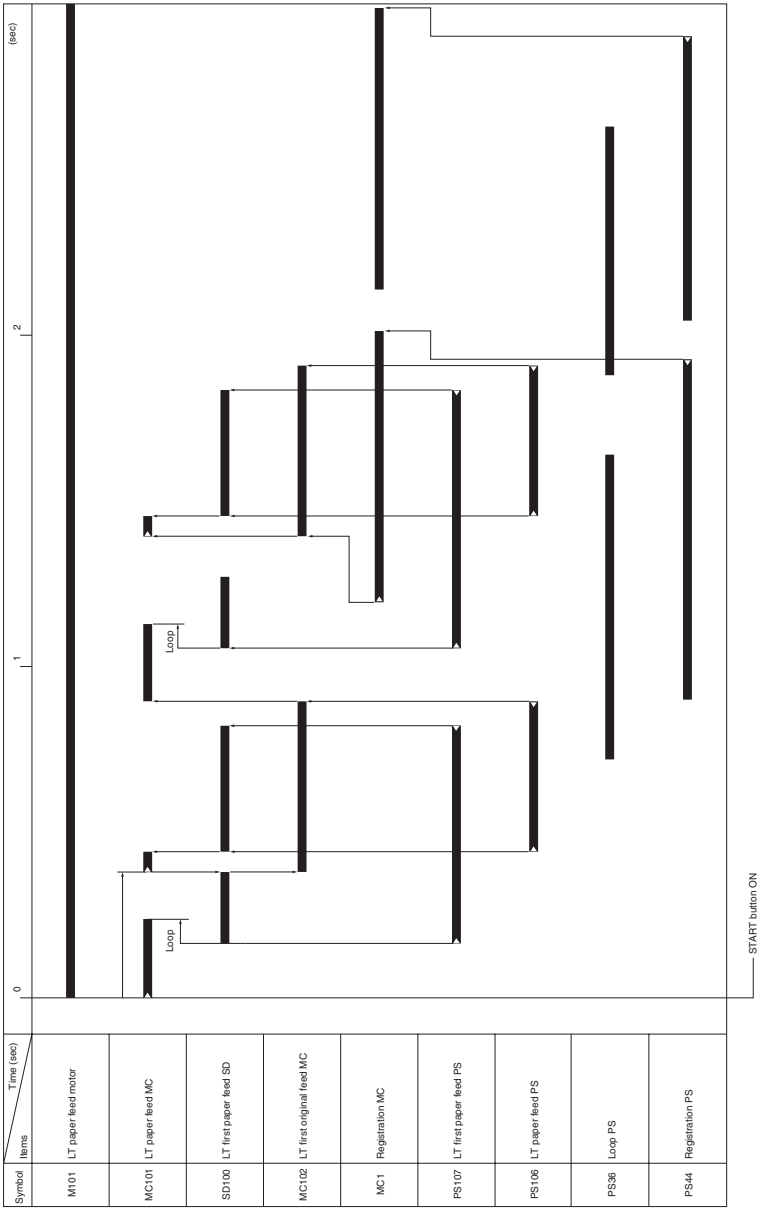
[3] EDH-5 Timing Chart (2)

A4, Double-side originals, 3 sheets



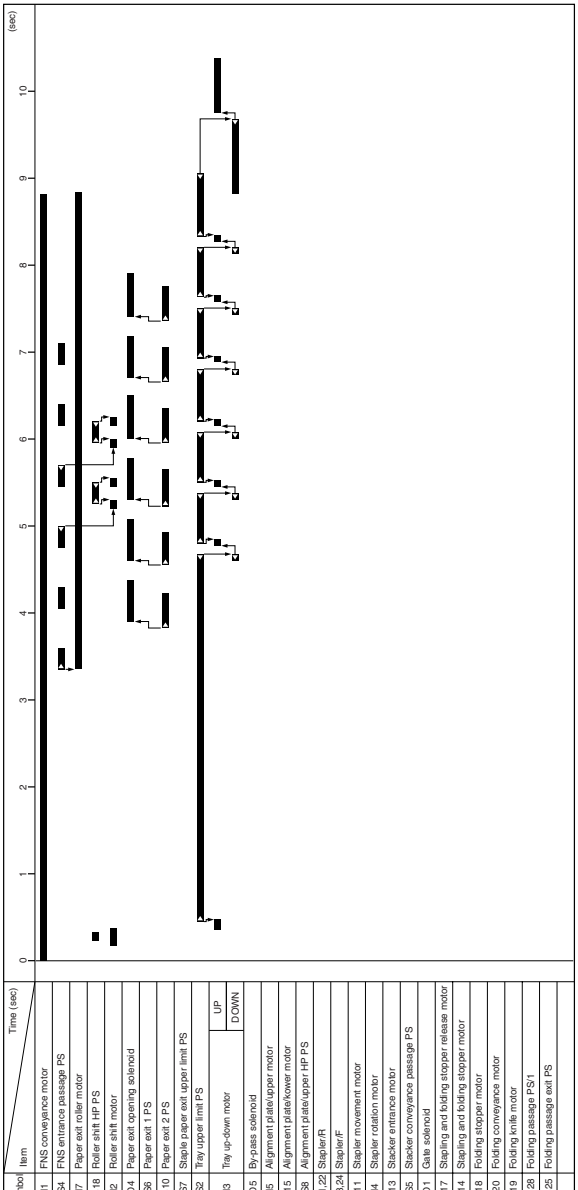
[4] C-403/C-404 Timing Chart

A3, 2 sheets



[5] FN-7/FN-115 Tlming Chart (1)

Sort, A4, 2 originals (single-side), 3 sets, 1:1

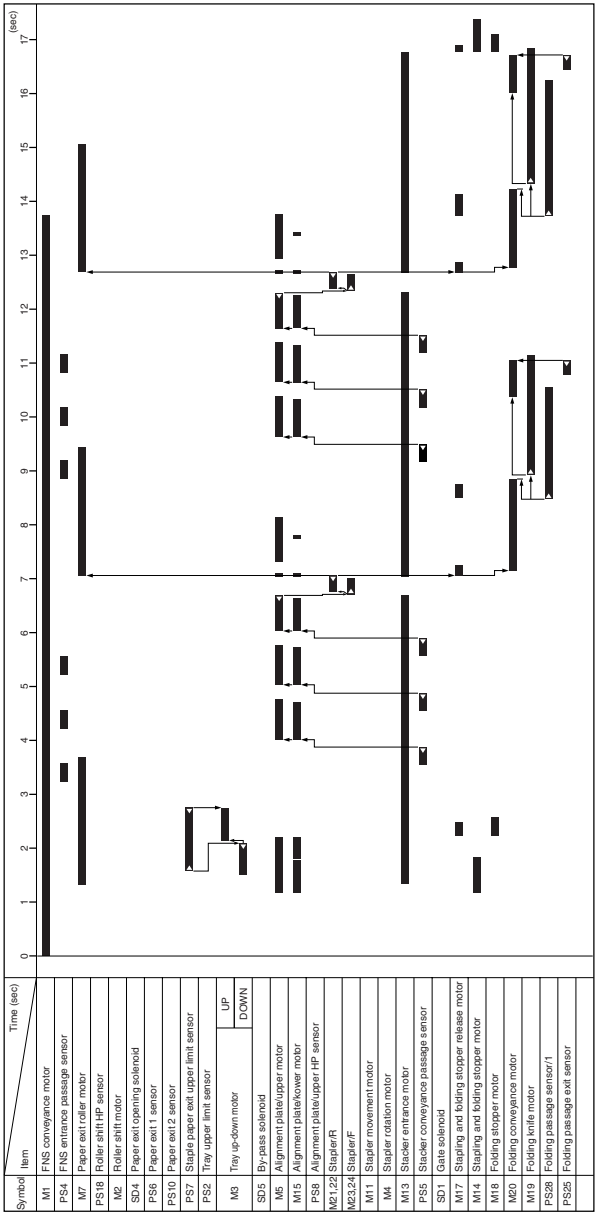


[6] FN-7/FN-115 Timing Chart (2)

2 staples (flat), A4, 2 originals (single-side), 3 sets, 1:1

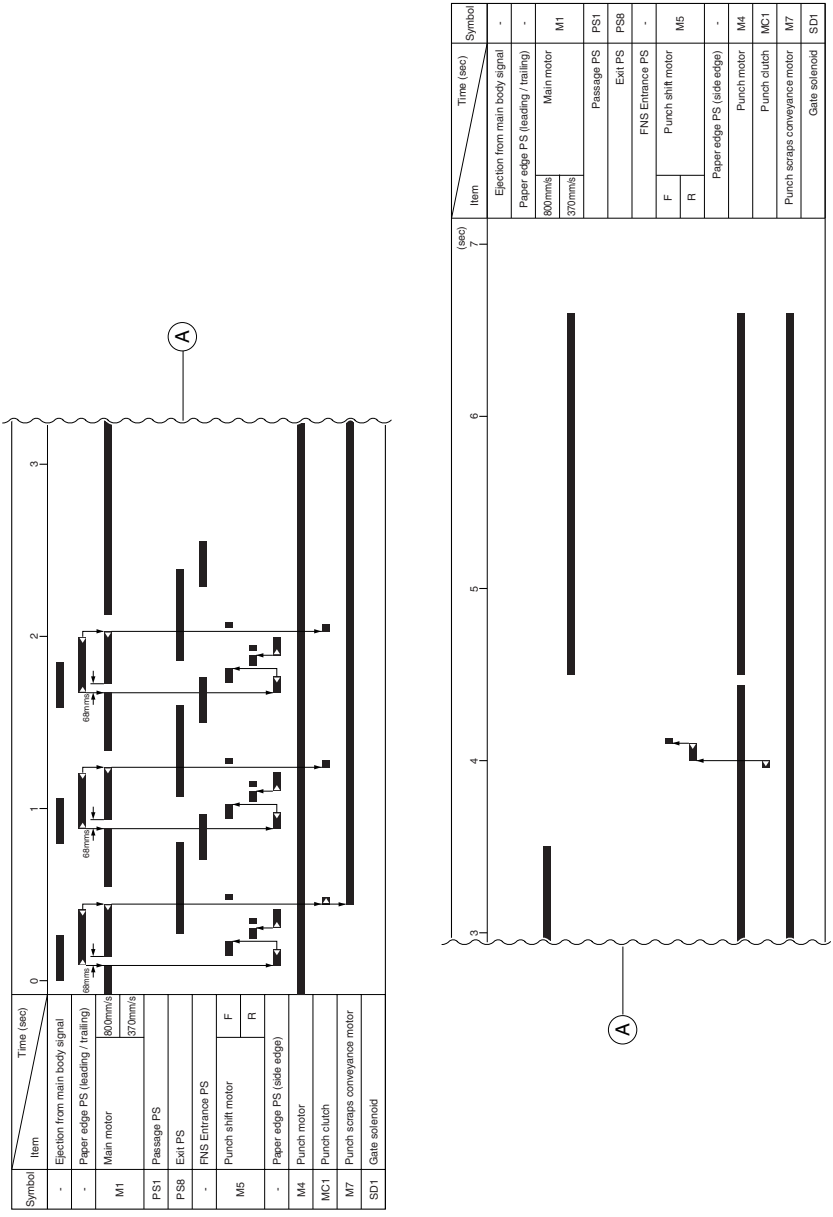
[7] FN-7/FN-115 Timing Chart (3)

Stitch and fold, A4R, 3 originals (single-side), 2 sets, 1:1, 1-1 Mode



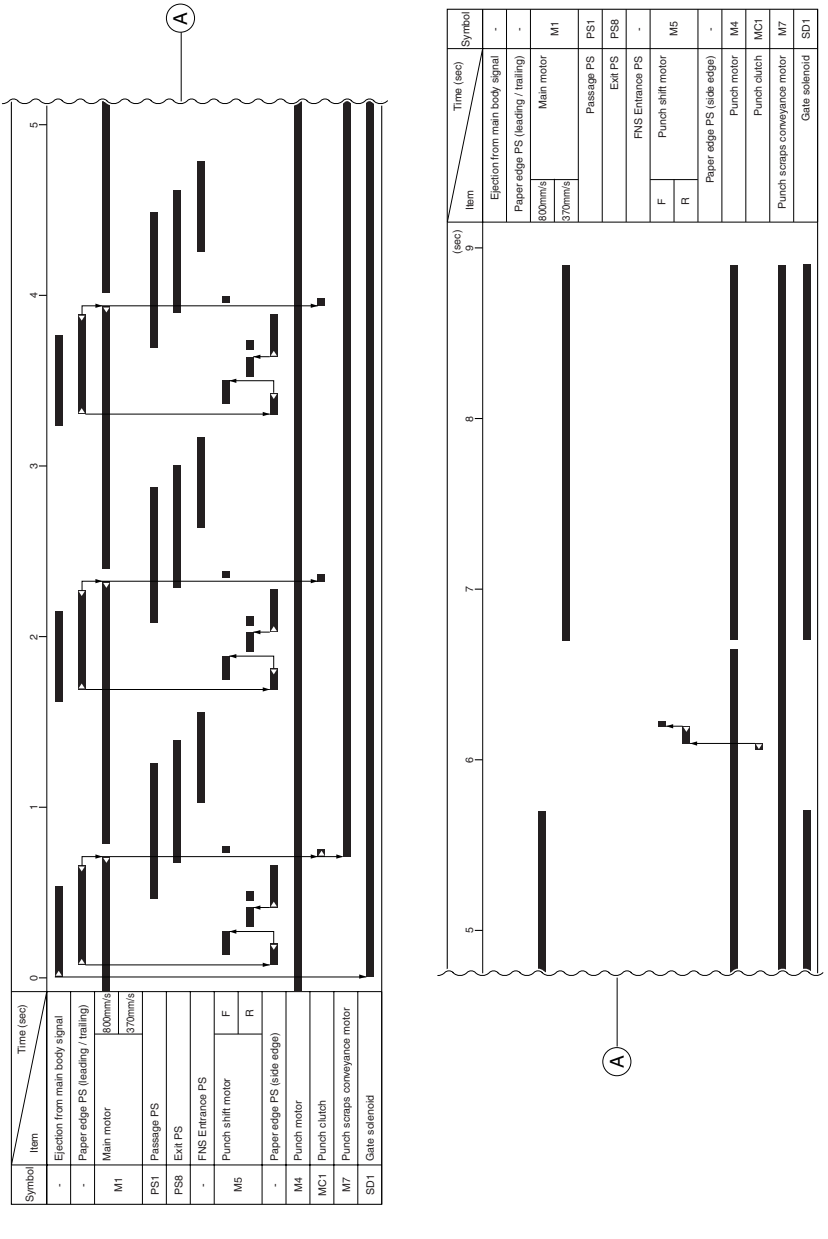
[8] PK-3 Timing Chart (1)

Punch mode, A4, Single-side copy, 3 papers



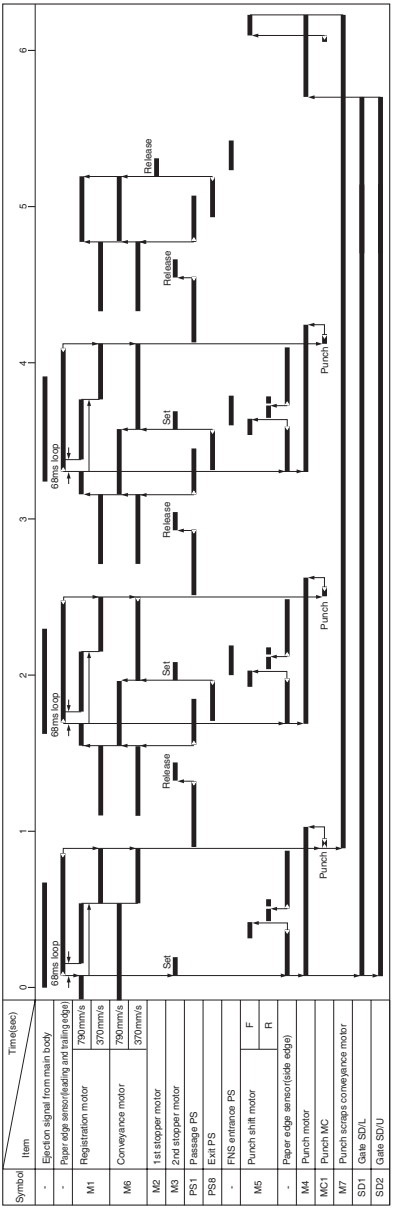
[9] PK-3 Timing Chart (2)

Punch mode, A3, Single-side copy, 3 papers



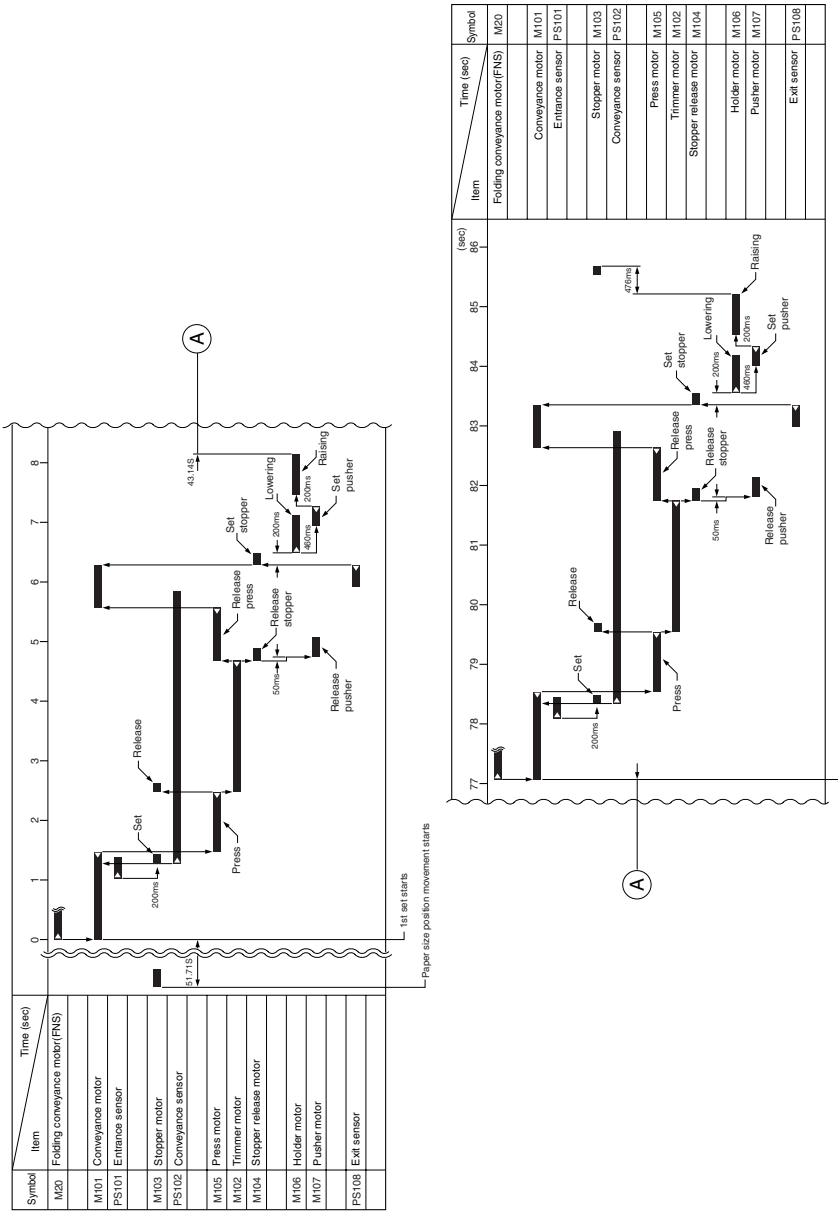
[10] ZK-2 Timing Chart

Z-folding + Punch mode, A3, Single-side copy, 3 papers



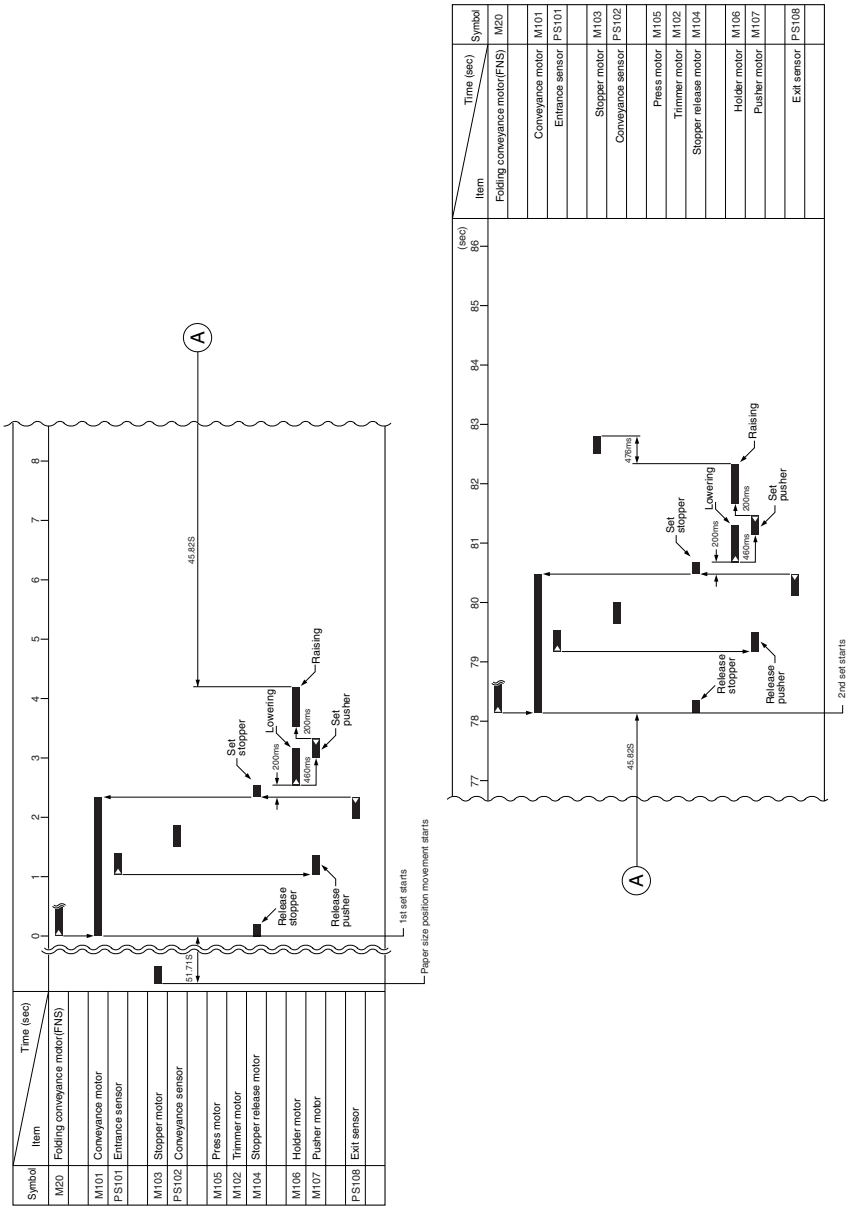
[11] TMG-2 Timing Chart (1)

Trim mode, A3, 16 sheets, 2 sets



[12] TMG-2 Timing Chart (2)

Through mode, A3, 16 sheets, 2 sets



4 ELECTRIC PARTS LIST