Model: Bellini-C2	Date: 4-Feb-04	No.: RB070038

Subject: Information for Bellini-C2 Enhanced Version	Prepared by: M. Matsuda
From: 2nd Tech Support Sec. Service Support Dept.	

Classification:	☐ Troubleshooting	☐ Part information	☐ Action required
	☐ Mechanical	☐ Electrical	☐ Service manual revision
	☐ Paper path	☐ Transmit/receive	☐ Retrofit information
	☒ Other ( )		

This bulletin describes the differences between the Bellini-C2 and the Bellini-C2e (Bellini-C2 Enhanced Version), which will be mass-produced from March 2004.

Note: The model name, machine code and EDP code are the same for these models.

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Major Differences Between the Bellini-C2 and Bellini-C2e

I. OPC Drum (Production Line)

The OPC layer of the drum has been thickened, so the lifetime of the OPC drum has been increased. The following drum is fitted in C2e mainframes on the production line, but as service parts, it can also be used on C2 MIF (see point **5)** below).

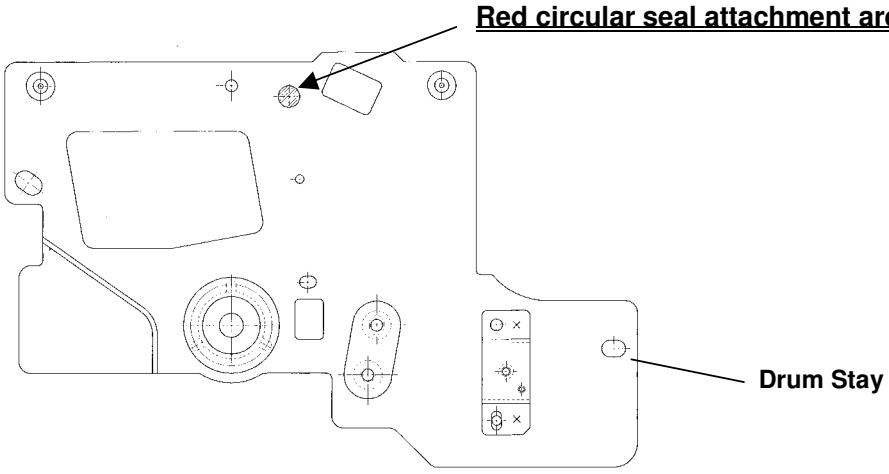
1) C2e Drum P/N: **B0709510**

2) Lot No. on the drum flange: __**L**__XXXXXXXXX

Space

Note: The C2 production drum lot number has 12 digits (XXXXXXXXXXXX).

3) Identifying the new C2e drum:
A red, circular seal is attached to the C2e OPC drum stay at the factory.



4) Setting Powder (P/N 54429101) for the new C2e drum:

This drum surface setting powder should be applied whenever installing the service parts C2e drum in the field. Please be sure to see pg. 2 of RTB #RA294064 for the application procedure and related notes.

5) Installing the new C2e drum on Bellini-C2 MIF:

The following is the procedure for installing the new C2e drum on C2 mainframes in the field, but please note that this drum cannot be installed on the C1.

a) Apply the setting powder to the new drum and complete the replacement in accordance with the procedure and important notes in RTB #RA294064.

b) Change the following SP modes to the values shown below.

SP No.	Description	Change to:	
		90cpm	105cpm
SP3903	VD Correction Counter	990	990
SP2301	Transfer Current Adjustment	-	-
-1	1st Copy Side	100	110
-2	Thick Paper	100	110
-4	Translucent Sheet	100	110
-5	2nd Copy Side	100	110
SP2940	Leading Edge Transfer Current	-	-
-1	Tray 1	100	110
-2	Tray 2	100	110
-3	Tray 3	100	110
-4	Tray 4	100	110
-5	Tray 5	100	110
-6	Tray 6	100	110
-7	Tray 7	100	110
-8	Duplex Tray	100	110

II. New Z-Folding Unit

1) Important Notes:

- To install the new Z-Folding Unit Type 2105 on the C2e mainframe, it is necessary to first install the new 3000 Sheet Finisher (SR841).
- To install the unit on C2 MIF, in addition to the above, it is also necessary to update to several specific firmware versions. <u>These details will be announced as a re-issue of this bulletin as soon as they become available.</u>

2) Service Manual/Parts Catalog

a) Z-Folding Unit

Service Manual: Released to the RISSN Server in early Feb '04 as an insert version.

Parts Catalog: Released to the RISSN Server in mid-Feb '04 as an insert version.

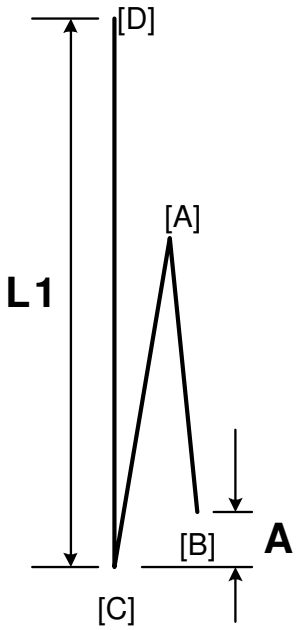
b) 3000-Sheet Finisher

Service Manual: (see **Appendix** below).

Parts Catalog: Released to the RISSN Server in mid-Feb '04 as an insert version.

3) New SP modes for the Z-Folding Unit:

a) Z-fold Position Adjustment: SP6122.



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SP6122 001-008	**Fine Adjustment – 1st Fold Position**
	[-4 ~ +4/0/ 0.2 mm] **Adjusts the position of the first fold [A] to decrease or increase the distance (A) between the leading edge [B] and the crease of the 2nd fold [C].**
SP6122 009-016	**Fine Adjustment – 2nd Fold Position**
	[-4 ~ +4/0/ 0.2 mm] **Adjusts the position of the 2nd fold [C] to decrease or increase the length (L1) of the sheet between the trailing edge [D] and the 2nd fold.**

b) Finisher Input Check: SP6117.

The sensors in bold have been added.

Class 3 No.	Bit No.	Description	Reading	
			0	1
6	7	Not Used		
	6	**Shift Tray Full Sensor – Z-folding**	**Not full**	**Full**
	5	**Bottom Fence HP Sensor**	**Not home position**	**Home position**
	4	**Top Fence HP Sensor**	**Not home position**	**Home position**
	3	Emergency Stop Switch	Not pressed	Pressed
	2	Shift Jogger Lift HP Sensor (Optional Jogger Unit)	Home position	Not home position
	1	Shift Jogger HP Sensor (Optional Jogger Unit)	Not home position	Home position
	0	Optional Jogger Unit Connection	Connected	Not connected

c) Finisher Output Check: SP6118

The motors in bold have been added.

26	**Jogger Top Fence Motor**
27	**Jogger Bottom Fence Motor**

III. Other SP Modes

1) Pre-transfer Lamp (PTL)

The following SP modes have been newly added for PTL settings.

Note: This PTL is intended to as a countermeasure for poor drum separation. But as a side effect, blurred images may appear on the leading edge of the paper. The default of the PTL setting is therefore “Switch Off.”

SP2602	PTL Settings	
001	Front – On/Off Setting	Switches the PTL on and off for the front side of the paper passing through the fusing unit at normal speed. **Note**: When feeding thick paper or OHP transparencies, this setting is always off. [0~1/**0**/1] **0: Off** 1: On PTL timing can be adjusted with SP2602 002.
002	Front – Off Timing Adj.	This SP adjusts the length of the space from the leading edge where the PTL quenching is applied to the front side at normal speed. For example, if you set +5, 5 mm from the leading edge will be quenched. [-5~10/**2**/0.1 mm]

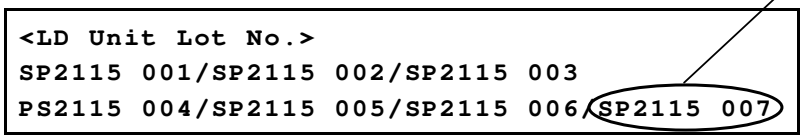
003	Back – On/Off Setting	Switches the PTL on and off for the rear side of the paper passing through the fusing unit in the duplex mode at normal speed. [0~1/**0**/1] **0: Off** 1: On **Note**: • When this setting is switched on, make sure that the setting of SP2940 008 is the same as the default setting of SP2940 001. • When feeding thick paper or OHP transparencies, this setting is always off.
004	Back – On/Off Timing Adj.	This SP adjusts the length of the space from the leading edge where the PTL quenching is applied to the rear side at normal speed. For example, if you set +5, 5 mm from the leading edge will be quenched. [-5~10/**2**/0.1 mm]
005	Front – On/Off Setting: Low Speed Mode	Switches the PTL on and off for the front side of the paper passing through the fusing unit in the low speed mode. **Note**: When feeding thick paper or OHP transparencies, this setting is always off. [0~1/**0**/1] **0: Off** 1: On
006	Front – Off Timing Adj.: Low Speed Mode	This SP adjusts the length of the space from the leading edge where the PTL quenching is applied to the front side in low speed mode. For example, if you set +5, 5 mm from the leading edge will be quenched. [-5~10/**2**/0.1 mm]
007	Back– On/Off Setting: Low Speed Mode	Switches the PTL on and off for the rear side of the paper passing through the fusing unit in the duplex mode in low speed mode. [0~1/**0**/1] **0: Off** 1: On **Note**: • When this setting is switched on, make sure that the setting of SP2940 016 is the same as the default setting of SP2940 009. • When feeding thick paper or OHP transparencies, this setting is always off.
008	Back – Off Timing Adj.: Low Speed Mode	This SP adjusts the length of the space from the leading edge where the PTL quenching is applied to the rear side in slow speed mode. For example, if you set +5, 5 mm from the leading edge will be quenched. [-5~10/**2**/0.1 mm]

2) LD Units:

SP2115-007 has been newly added to increase the accuracy of the LD beam pitch. To activate this SP mode, it is necessary to manually input the value shown at the bottom right of the label (see below) when replacing the LD unit.

New decal on the LD unit

New value for SP2115-007 manual input



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3) Fusing Temperature:

The adjustable range for the fusing temperature has been changed as follows.

SP	Old Function/[Setting]	New Function/[Setting]
SP1105-001	B070: [168~178/ **168**/ 1 deg] B071: [168~178 / **173** / 1 deg]	B070: [***120***~178/ **168**/ 1 deg] B071: [***120***~178 / **173** / 1 deg]
SP1105-002	B070: [148~158 / **148** / 1 deg] B071: [148~158 / **153**/ 1 deg]	B070: [***100***~158 / **148** / 1 deg] B071: [***100***~158 / **153**/ 1 deg]

APPENDIX

SR841 Service Manual Differences

The following is a summary of the differences between the SR840 and SR841 (all other sections are identical). The revised sections appear from the following page.

Installation

Auxiliary trays and their holders have been added to the accessory list.

Note: As mentioned in the Operating Instructions, auxiliary trays should be attached on top of the proof/shift tray to ensure proper stacking.

Replacement and Adjustment

The replacement procedures for new components have been added.

Details

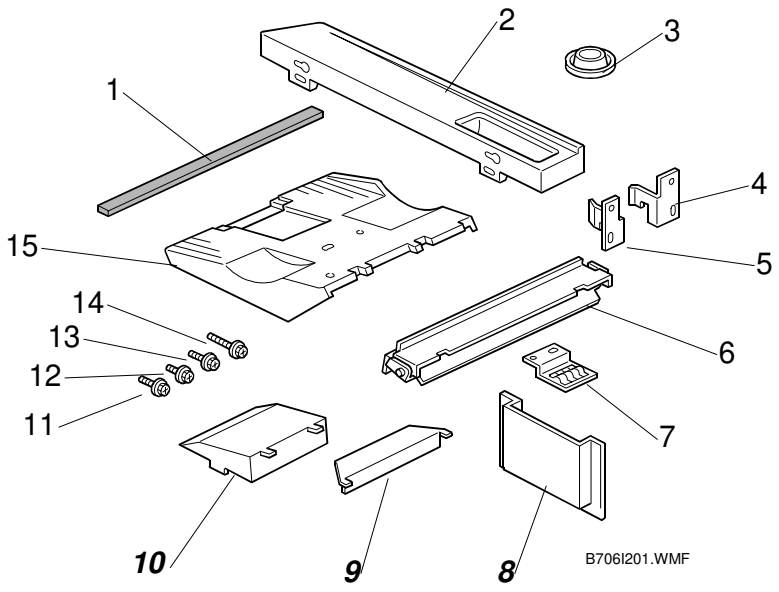
Explanations for the Z-folding stapling mechanism and new electrical components have been added.

Installation

Accessory Check

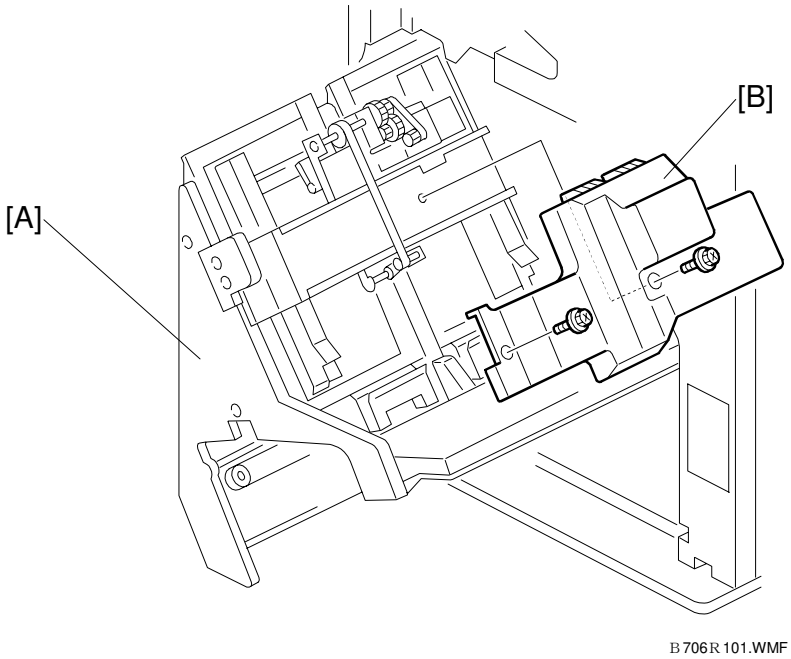
Check the quantity and condition of the accessories in the box against the following list:

Description	Q'ty
1. Cushion	1
2. Table Extension	1
3. Leveling Shoes	4
4. Rear Joint Bracket	1
5. Front Joint Bracket	1
6. Entrance Guide Plate	1
7. Grounding Plate	1
8. Auxiliary Tray Holder	***1***
9. Auxiliary Tray - Proof	***1***
10. Auxiliary Tray - Shift	***1***
11. Tapping Screws - M4 x 8	2
12. Tapping Screws - M3 x 6	4
13. Tapping Screws - M3 x 8	4
14. Phillips Screws w/washer - M4 x 14	4
15. Shift Tray	1
16. Installation Procedure	1



Replacement and Adjustment

Z-Fold Jogger unit Cover



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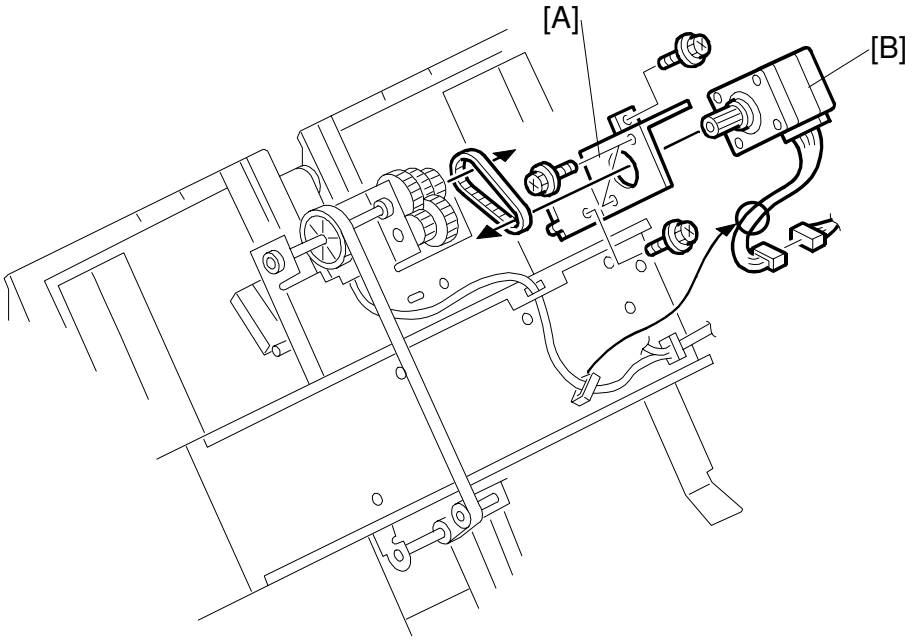
1. Open the front door.
2. Pull out the stapler tray unit [A].
3. Remove the Z-fold jogger unit cover [B] (x2)

Jogger Top Fence Motor



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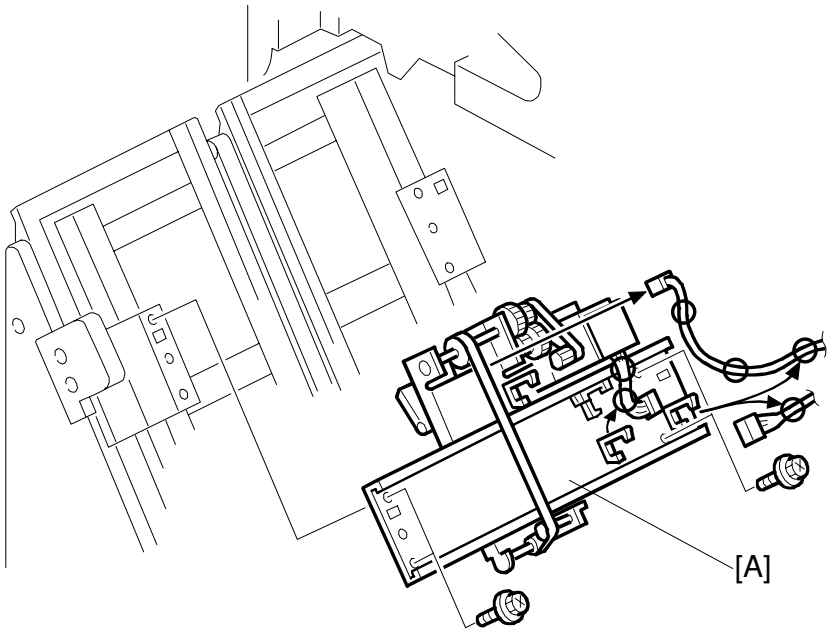
1. Open the front door and pull out the stapler tray unit.
2. Remove the Z-fold jogger unit cover (x2)
3. Remove the motor bracket [A] (x2, timing belt x1)
4. Remove the jogger top fence motor [B] (x2 x1 x1)

Z-Fold Jogger Unit



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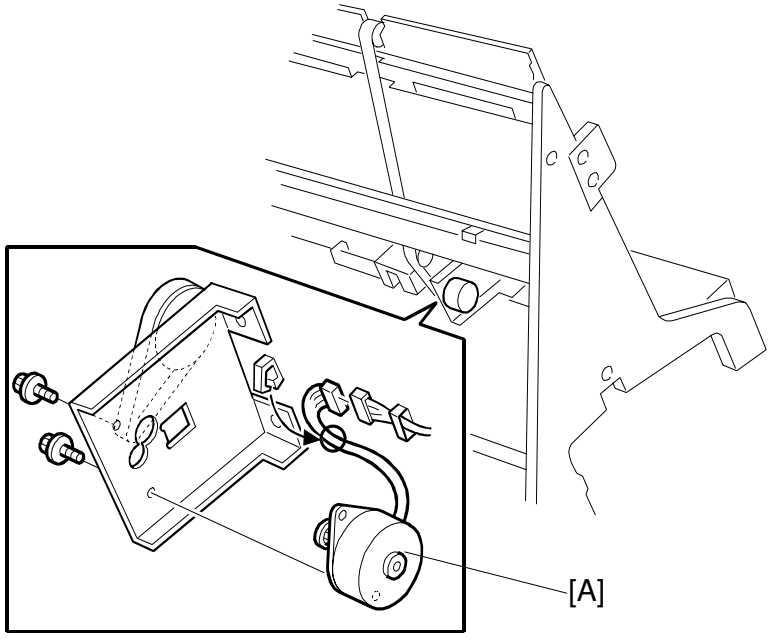
1. Open the front door and pull out the stapler tray unit.
2. Remove the Z-fold jogger unit cover (x2)
3. Remove the Z-fold jogger unit [A] (x4, x4, x2)

Jogger Bottom Fence Motor



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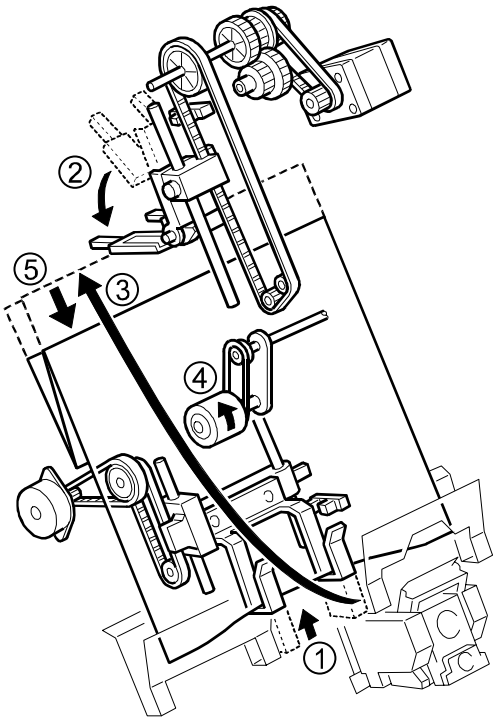
1. Open the front door and pull out the stapler tray unit.
2. Remove the jogger bottom fence motor [A] (x2, timing belt x1, x1, x1).

Details

Stapling Z-Folded Paper



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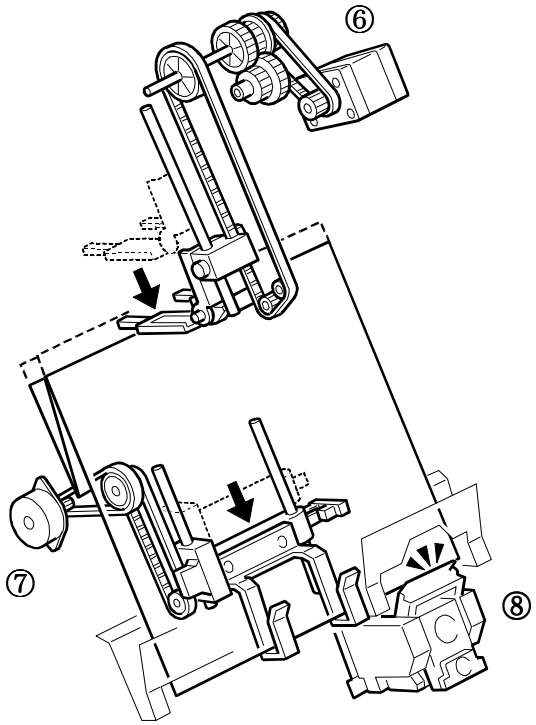

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Here is the operation sequence for jogging and stapling Z-folded sheets:

① The lower jogger fence lifts to receive the Z-folded sheets.

② The top fence moves down, to the horizontal position.

③ A sheet of paper goes into the stapler tray.

④ The positioning roller turns when each sheet is fed to the stapler tray.

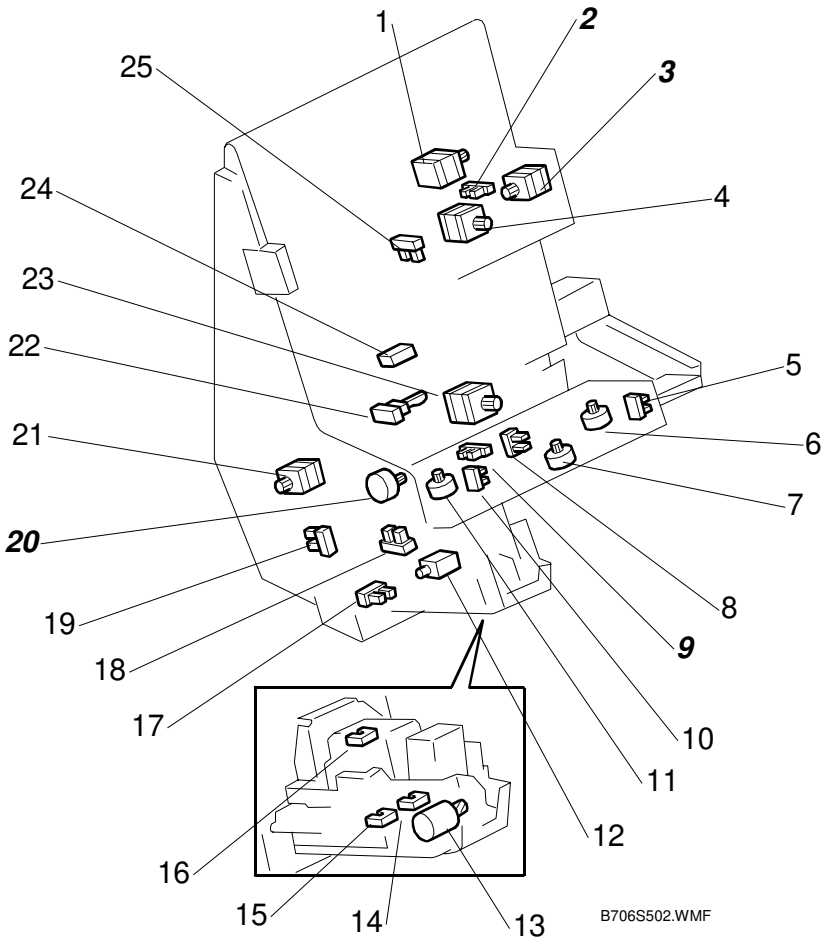
⑤ Each sheet is fed down against the lower jogger fence to align the bottom edge.

⑥ After the set number of sheets come in, the jogger top-fence motor switches on and lowers the top fence against the top of the stack. This aligns the stack for stapling.

⑦ The bottom fence motor lowers the aligned stack to the stapling position.

⑧ The stapler staples the stack.

Electrical Components



1. Stack Feed Out Belt Motor
2. ***Top Fence HP Sensor***
3. ***Jogger Top Fence Motor***
4. Jogger Motor
5. Stack Plate Rear HP Sensor
6. Stack Plate Rear Motor
7. Stack Plate Center Motor
8. Stack Plate Center HP Sensor
9. ***Bottom Fence HP Sensor***
10. Stack Plate Front HP Sensor
11. Stack Plate Front Motor
12. Stapler Return Solenoid
13. Stapler Hammer Motor
14. Staple End Sensor
15. Cartridge Set Sensor
16. Staple HP Sensor
17. Stapler HP Rotation Sensor
18. Stapler Return Sensor
19. Stapler HP Sensor
20. ***Jogger Bottom Fence Motor***
21. Stapler Rotation Motor
22. Stack Feed-Out Belt HP Sensor
23. Stapler Motor
24. Stapler Tray Paper Sensor
25. Jogger HP Sensor