Model: Bellini	Date: 30-May-00	No.: RA294014

Subject: Finisher ROM History	Prepared by: H.K.
From: Technical Services Dept., GTS Division	

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

The history of the EPROM (B3025103) on the Finisher Main Control Board and cut-in production month are as follows:

B3025103B (Check sum: FF9B4CBD H)

First release of finisher firmware.

From first production.

B3025103B to C (Check sum: FF9F43EE H)

SP6120 display title missing

The staple jogger positions for each paper size can be adjusted with SP6-120. This modification becomes effective when the mainframe firmware is updated to version 7.23.2 (F) or later.

6-120	Staple Jogger Adjustment				
	1	A3	S	Adjusts the staple jogger positions for each paper size.	+1.5 ~ –1.5 0.5mm/step **0 mm**
	2	B4			
	3	A4 L			
	4	A4 S			
	5	B5 L			
	6	B5 S			
	7	DLT L			
	8	LG L			
	9	LT L			
	10	LT S			
	11	Others			

From February Production

B3025103C to D (Check sum: FFA114DC H)

Correction of finisher malfunctions that occurred when the printer controller was installed and used with a test machine:

- Door Open is indicated after staple job.
- After a staple job, the Staple Unit does not move to the staple supplying position in the staple end condition.
- Stapled sheets of paper fed out incorrectly when the interrupt function is used during printing.

Correction of finisher malfunctions that occurred when the finisher was connected to a 105-cpm test machine:

- Incorrect stapling, Incorrect jogging, R2 jam, R6 jam

From March production

B3025103D to E (Check sum: FFA063EA H)

Correction of finisher malfunctions that occurred when the finisher was connected to a 105-cpm test machine:

- Tab paper stack failure, exit paper jam in different paper length paper shift

Solution for a symptom that occurred when emptying the finisher copy tray :

Symptom

In a large copy job, the machine stops with 3000 sheets on the finisher tray. As the operator removes the copies, the machine restarts immediately and the tray is still in the down position. This causes the copies to fly out of the trays. The tray moves upwards to the correct position if the Stop button is pushed.

Cause

Once the finisher detects that the tray is in the bottom position, it takes 1.5 seconds for the finisher to send the signal to the mainframe to stop the copy job.

Solution

Software change: The finisher sends the stop signal to the mainframe at the same time it detects that the tray is in the bottom position.

From April production

Model: Bellini	Date: 30-May-00	No.: RA294014

For your reference:

This is the solution for the following problem that was reported:

When the paper stack is removed when the tray is full, the stack height sensor feeler drops. Then, 1.5 seconds later, the finisher raises the tray and the sends the "wait" signal to the copier. The copier then immediately stops the paper flow exiting to the finisher. When the tray is lifted to the top position, the finisher sends the "wait clear" signal to the copier. Then, the copier restarts exiting the paper to the finisher.

If the copier does not receive the "wait" signal, it restarts exiting the paper immediately.

The following condition has also been reported.

When lower limit sensor 2 is activated while the paper is exiting to the finisher, the finisher sends the "lower limit" signal to the copier. The finisher stops lowering the tray. At the same time, the copier stops the paper from exiting. Here, copying is stopped by the tray full condition, not by the "wait" signal. When the stack of paper is removed, the paper load is lifted and the tray lifts up slightly because it is suddenly lighter. The lower limit sensor 2 may deactivate at this point. In this case, the finisher will not send the "wait" signal to the copier. Therefore, the copier will restart exiting the paper to the finisher. If the paper passes the stack height sensor within 1.5 seconds, the tray cannot be lifted. This caused the copies to fly out of the trays.

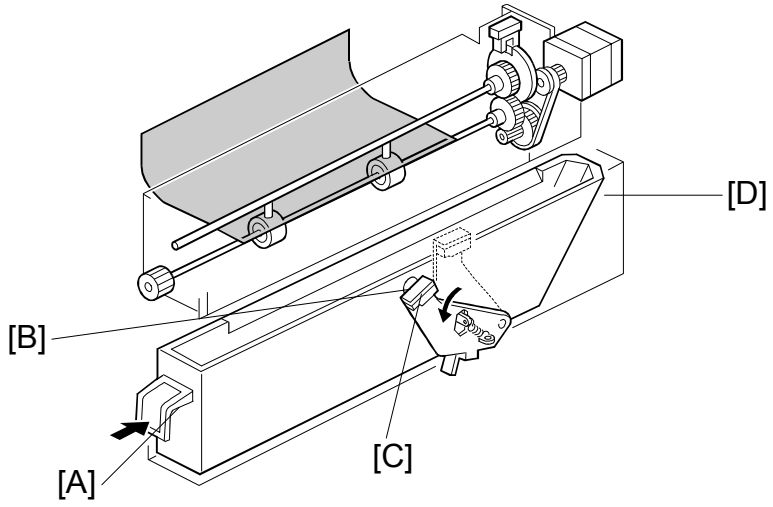
Model: Bellini	Date: 26-Jun-00	No.: RA294021

Subject: Finisher - Punch Waste Full Condition	Prepared by: H.K.
From: Technical Services Dept., GTS Division	

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

We have found an incorrect description of the punch waste full condition on page B302-18 in the finisher service manual. Please correct the service manual as follows:

PUNCH WASTE COLLECTION



B302D002.WMF

The punch waste is collected in the punch waste hopper [A], which is under the punch unit.

Incorrect

When the punch waste covers the hole [B] in the hopper, the punch waste hopper sensor [C] turns on and a message will be displayed after the copy job finishes.

Correct

When the punch waste covers the hole [B] in the hopper, the punch waste hopper sensor [C] turns on and a message will be displayed in the operation panel LCD. Then, the copy job will be stopped. After emptying the punch waste and returning the punch waste hopper [A] to the finisher, the copy job will be resumed.

Model: Bellini	Date: 06-Jul-00	No.: RA294022

Subject: Finisher: Poor Front Cover Sheet Positioning	Prepared by: H.K.
From: Technical Services Dept., GTS Division	

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

SYMPTOM

When stapling more than 50-70 documents with front and rear cover sheets, the front cover is not squared up before stapling. The alignment is within standard (2 to 30 sheets stapled: 2 mm, 31 to 100 sheets stapled: 3 mm). However, some customers request a better alignment.

CAUSE

1. The exact position where the jogger stops differs for each paper type. It is necessary to adjust the staple jogger position for each type.
2. The trailing edge of paper with a large curl may not be aligned with the stack stopper in the jogger unit.

SOLUTION

Solution 1 (Staple Jogger Span Adjustment)

SP6120 adjustment becomes effective when the finisher firmware is updated to version C or later and the mainframe firmware is updated to version 7.23.2 (F) or later. If the mainframe firmware is updated without the finisher firmware, SP6120 will be displayed in SP Mode but will not be effective.

The staple jogger positions for each paper size can be adjusted with SP6-120 as shown.

6-120	Staple Jogger Adjustment				
	1	A3	S	Adjusts the staple jogger positions for each paper size. The higher the setting, the narrower the jogger span.	+1.5 ~ 0 0.5mm/step **0 mm**
	2	B4			
	3	A4 L			
	4	A4 S			
	5	B5 L			
	6	B5 S			
	7	DLT L			
	8	LG L			
	9	LT L			
	10	LT S			
	11	Others			

From Finisher February Production

1. Increase the SP mode value by 1 step and make copies to check whether the symptom is corrected.
2. If the symptom still appears, repeat step 1 (maximum value 1.5 mm).

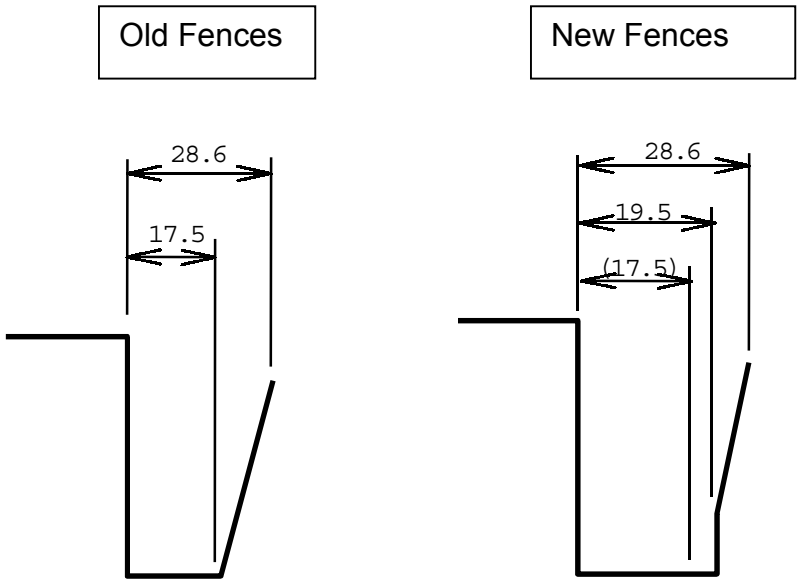
Model: Bellini	Date: 06-Jul-00	No.: RA294022

Solution 2 (widening the positioning fences):

To improve the stacking ability of the jogger unit, the production machines have been modified as follows: The modification has been applied to the April production. Regarding the cut-in serial numbers, please refer to finisher MB No.003.

Old part number	New part number	Description	Q'ty	Int	Page	Index	Note
B3024511	B3024518	Front Positioning Fence	1	X/X	13	4	1
B3024521	B3024528	Middle Positioning Fence	1	X/X	13	5	1
B3024531	B3024537	Rear Positioning Fence	1	X/X	13	8	1

The widths of the positioning fences (front, middle and rear) have been increased as shown below.
Note 1: When replacing either of the old fences in the field, install all three new parts as a set.



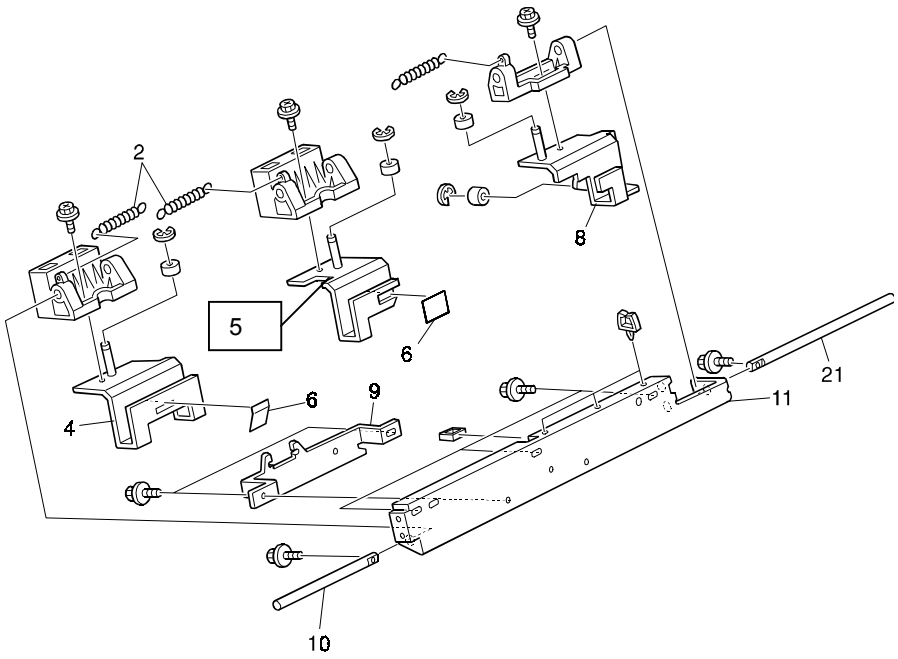
Model: Bellini	Date: 06-Jul-00	No.: RA294022

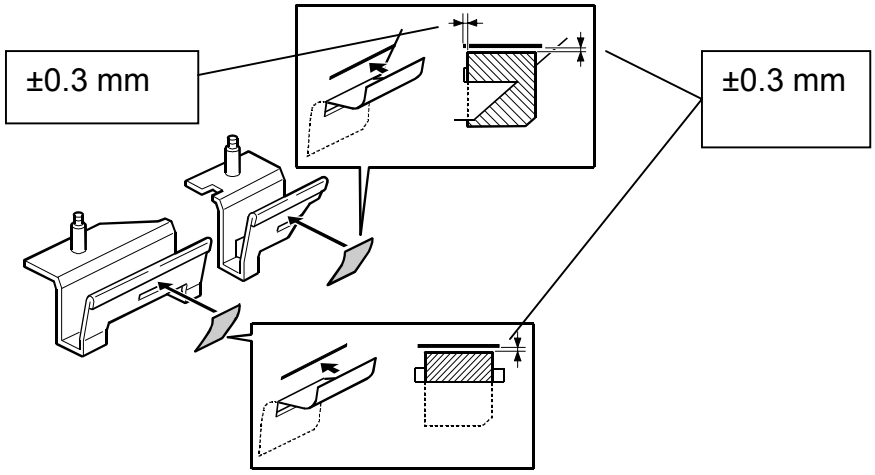
Replacement procedure

Note: In addition to installing the new three fences, it is necessary to attach two Mylar Guides (B3024517, Index 6) to the Front and Middle Positioning Fences.

1. Remove the two springs (index 2) hooked on the Slide Holder Shaft Bracket (B3024742: Index 9).
2. Remove the securing screws for the front and rear shafts (B3024541: Front Shaft - Slide Holder, Index 10 & B3014542: Rear Shaft - Slide Holder, Index 21).
3. Slide out the front and rear shafts from the Staple Unit Lower Stay (B3024741: Index 11).
4. Remove the old positioning fences (Index 4, 5, and 8).
5. Attach the two Mylar Guides (B3024517: Index 6) to the Front and Middle Positioning Fences as shown in the illustration on the next page.
6. Install the new positioning fences (front, middle, and rear).
7. Return all removed parts.

Note: Make sure that the two springs are put back correctly.




±0.3 mm
±0.3 mm

Model: Bellini	Date: 06-Oct-00	No.: RA294033

Subject: SC729(Punch Motor Failure)	Prepared by: S. Hizen
From: Technical Services Dept., GTS Division	

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

SYMPTOM

SC729 is displayed, or the mainframe does not detect the finisher.

CAUSE

1. Electrical noise generated by the drive motor affects the initial check routine of the punch drive board firmware, so that the motor reset signal is constantly sent out. The only units on which the symptom may occur are the USA two-punch-hole and European fourpunch-hole units.
2. The two screws securing the heat resistor to the IC on the punch drive board come loose. As a result, the temperature of the IC becomes too high.

SOLUTION

1. The software has been changed so that the drive motor reset signal is deactivated at the proper time, even if electrical noise occurs.

   Production units:
   The ROM on the finisher main board has been changed from the beginning of September 2000 mass-production, and on some units from August mass-production.

   Old ROM P/N: B302-5103F
   New ROM P/N: B302-5103G

   Listed below are the serial numbers for August production finishers that contain the new modified ROM.
   Note: These units are marked with yellow circular labels next to the bar code on the carton.

B302-14

L0670080009
L0670080016~L0670080018
L0670080020~L0670080023
L0670080025~L0670080028
L0670080030~L0670080035
L0670080037~L0670080039
L0670080044~L0670080047
L0670080049~L0670080050
L0670080115~L0670080151
L0670080153
L0670080155~L0670080156
L0670080177~L0670080178
L0670080181~L0670080186
L0670080189~L0670080191
L0670080193~L0670080213

Total 99 units

B302-17
H3800800066
H3800800073~H3800800074
H3800800082~H3800800451

Total 373 units

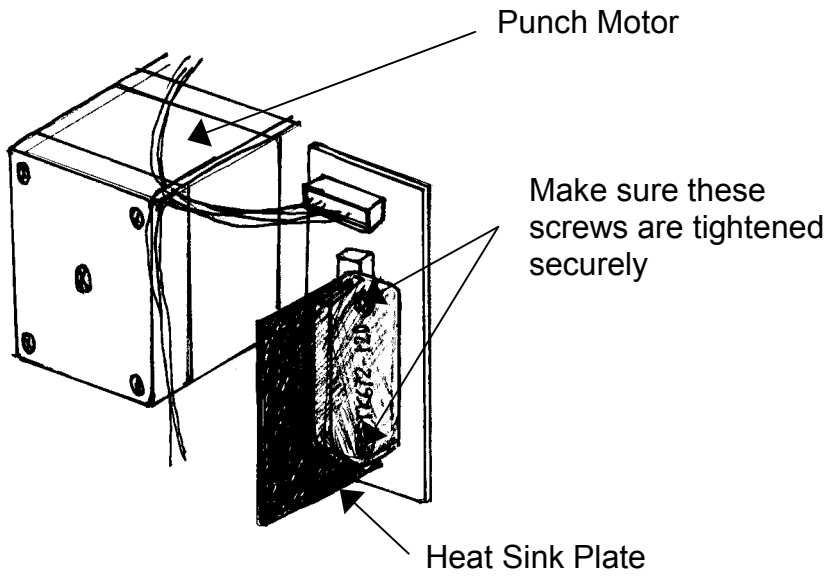
B302-26: None

2 From September 2000 production of the punch units, the heat resistor securing screws have been locked in place with an adhesive.

P/N change:
Old Punch Drive Board P/N: A812-5120
New Punch Drive Board (Heat resistor screw lock) P/N: A812-5150

3 Action required for field units:

3-1 Please check the two heat resistor screws when visiting the machine site and tighten them if they are loose.



3-2 Replace the finisher ROM only in the following finishers:

-USA: 2-punch hole unit
-Europe: 4-punch hole unit