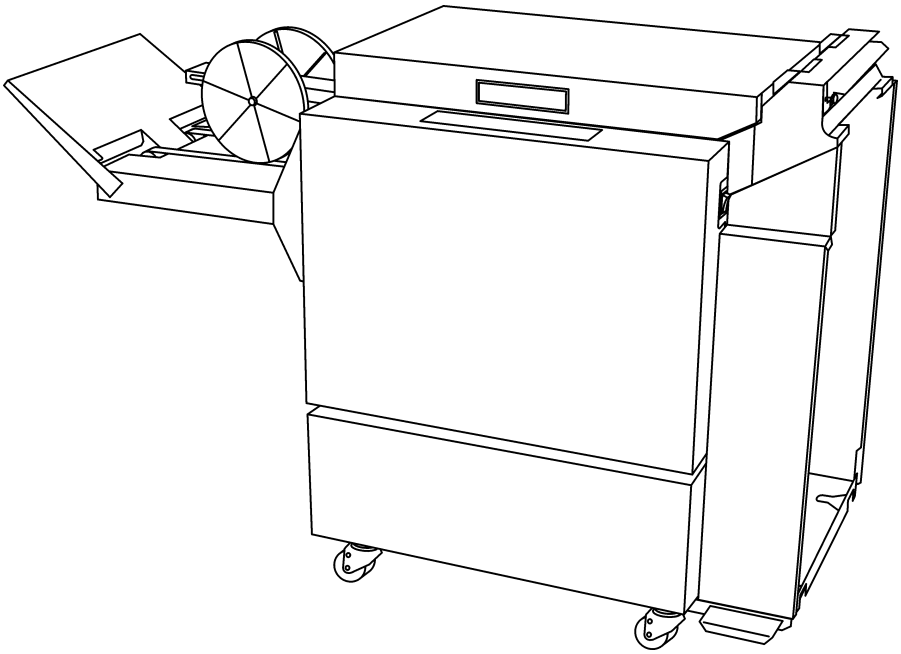
Service Manual
Bookletmaker SR 85



February 2001

Part No. 75672

Contents

REP 1.1 Front and rear cover

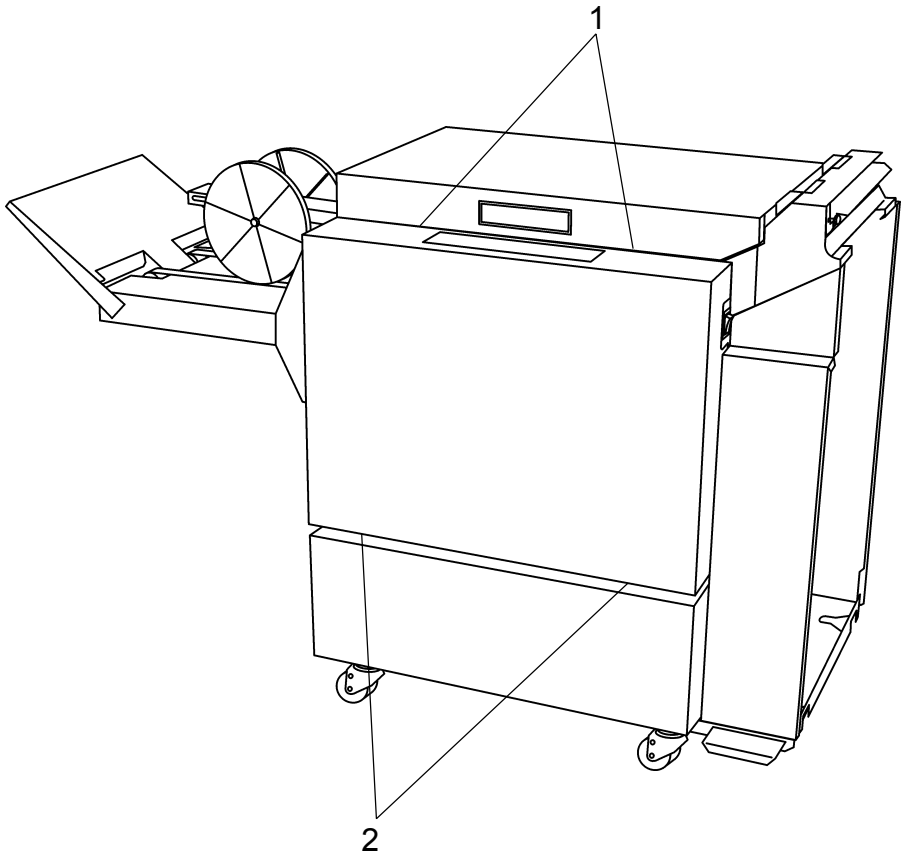
REMOVAL

Front cover

1. Switch off the main power switch and disconnect the power cord.
2. Open the Top cover and loosen the two screws (1) securing the top end of the Front cover.
3. Loosen the two nuts (2).
4. Pull out the lower end and lift up carefully to remove.

Rear cover

Removal of the rear cover is performed the same way as removal of the front cover.

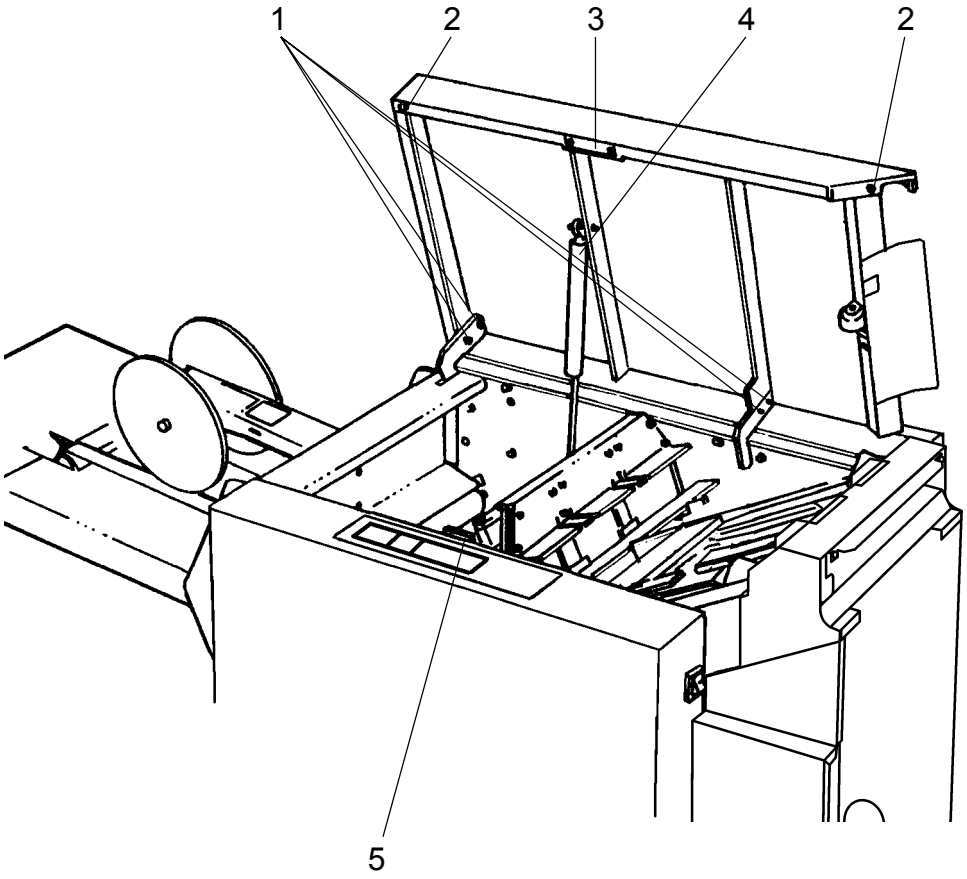


INSTALLATION

Installation is an exact reversed procedure of removal.

REP 1.2 Top cover

REMOVAL
1. Open the Top Cover
2. Disconnect the Gas spring (4).
3. Remove four screws (1) from the brackets.
4. Lift off the Top cover.



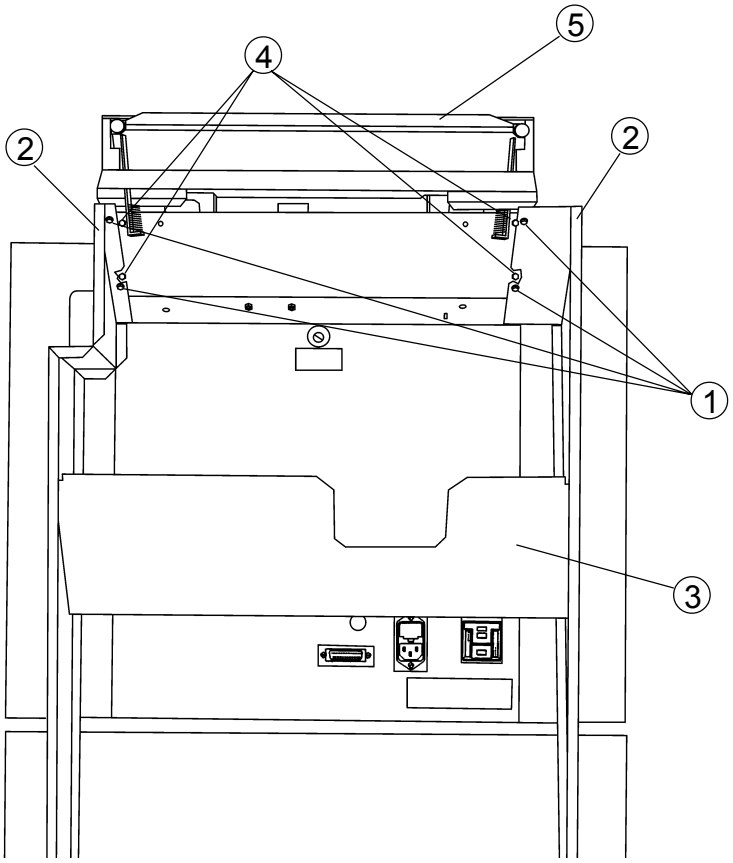
INSTALLATION
1. Mount the four screws (1) onto the brackets and tighten.
2. Connect the Gas spring (4).
3. Close the Top cover and check:
   - That the magnet (5) locks on the sheet plate (3).
   - That both rubber bushings (2) contacts the surface.
   - That the Top cover front side is parallel to the front cover.
   - That the Interlock switch activates when the distance between the magnet (5) and the sheet plate (3) is 2 to 5 mm.

ADJUSTMENT
1. Loosen the screws (1).
2. Move the Top cover to adjust.
3. Tighten the screws (1).
4. Repeat the check.

REP 1.3 Panels + Infeeder

REMOVAL

1. Loosen the four 7 mm screws (1).
2. Slide the top of the panels (2) away from the screws. Remove the shelf (3), remove the two panels.
3. Loosen the four 7 mm screws (4).
4. Lift up the infeeder (5) and remove it.



INSTALLATION

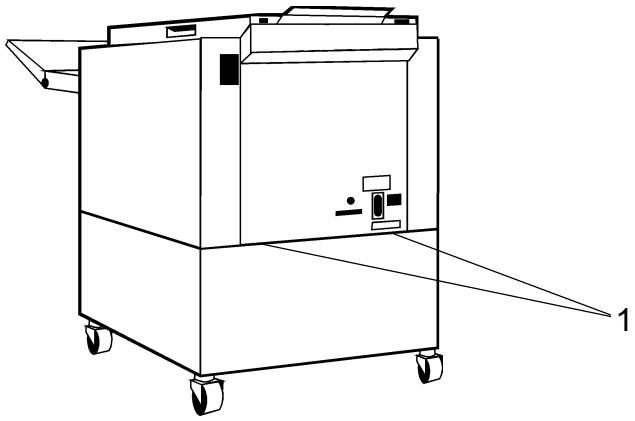
Installation is an exact reversed procedure of removal.

REP 1.4 Infeed and Outfeed cover

REMOVAL

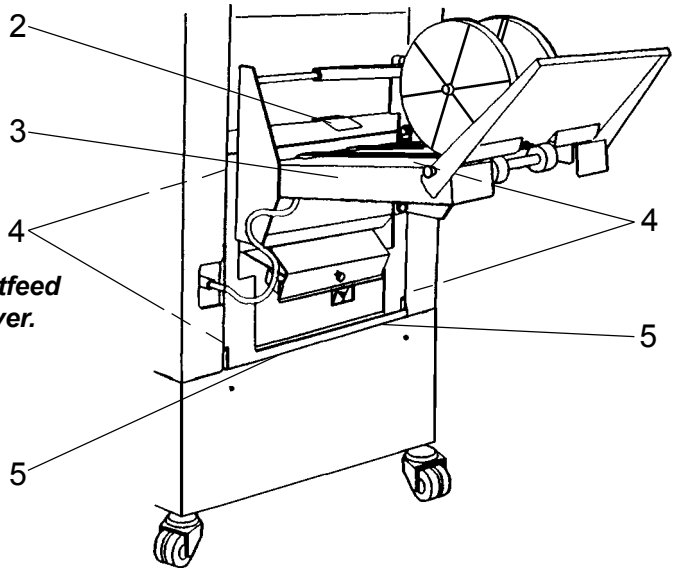
Infeed cover

1. Switch off the main power switch and disconnect the power cord.
2. If the unit is online, disconnect the connection cable.
3. Remove the two panels and the shelf.
4. Loosen the two nuts (1).
5. Pull out the lower end of the infeed cover and remove thecover down wards.



Outfeed cover

1. Switch off the main power switch and disconnect the power cord.
2. Remove front and rear cover according to REP 1.1.
3. Loosen the two screws below the stacker frame securing the stacker.
4. Disconnect and remove the stacker (3).
5. Tip the SR 85 by placing 50 mm or greater distances between the outfeed end of the SR 85 and the base.
6. Loosen the two screws (5) securing the outfeed bottom cover.
7. Slide the bottom cover towards the outfeed, until it releases from the infeed bottom cover. Slide the bottom cover towards the infeed until it releases from the screws (5).
8. Remove the four screws (4).
9. Pull the cover carefully out to avoid damage on the outfeed sensor harness on the front side.



NOTE: Cut the ty-wraps and disconnect the outfeed sensor to fully remove the outfeed cover.

INSTALLATION

Installation is an exact reversed procedure of removal.

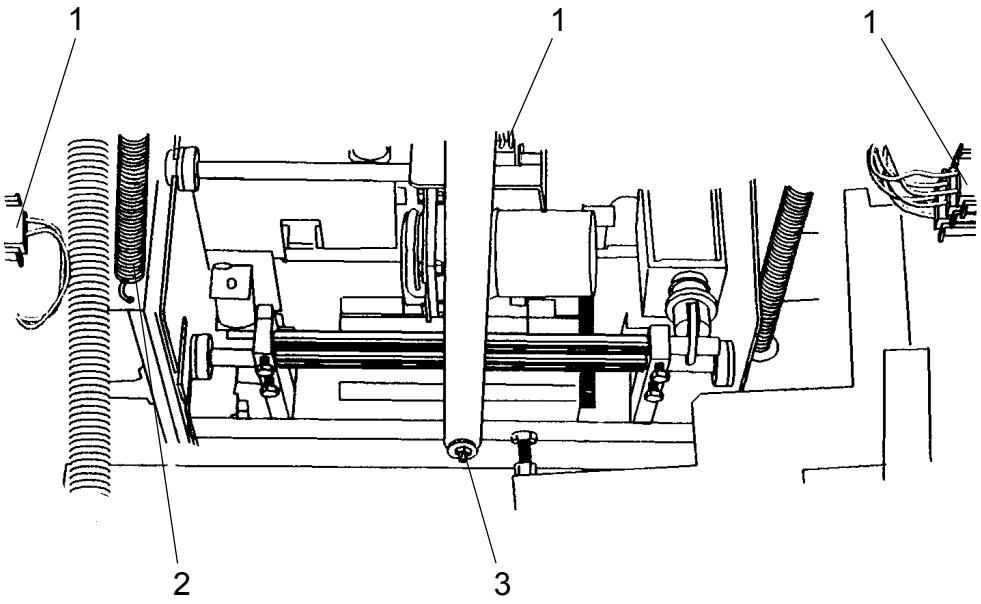
NOTE: Make sure the plastic guide (2) does not get jammed between the stackers left side and the outfeed cover when installing the stacker.

REP 2.1 Infeed module

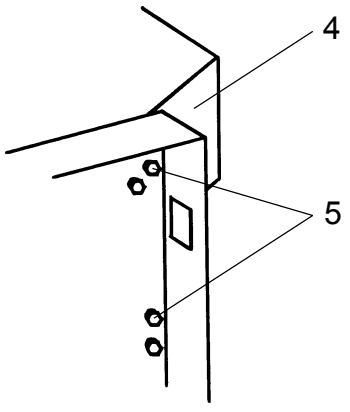
REMOVAL

1. Remove the front and rear cover according to REP 1.1.
2. Remove the two panels,shelf and the infeed assy according to REP1.3.
3. Remove the infeed cover according to REP 1.4
4. Disconnect the five connectors (1).
5. Remove the spring (2).

VIEW INSIDE INFEED COVER



6. Disconnect the length adjust strap (3).
7. Remove the two screws (5) on the front side.
8. Remove the two screws (5) on the rear side.



9. Lift out the Infeed module (4). Carefully so the side guides does not bend.

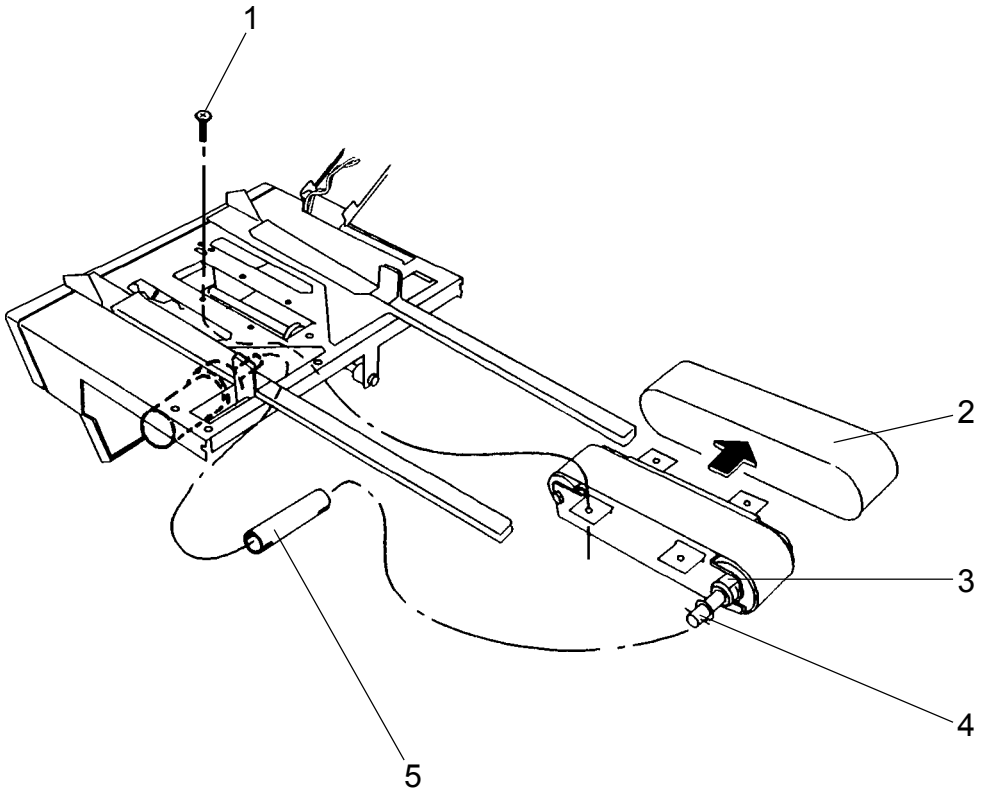
INSTALLATION

Installation is an exact reversed procedure of removal.

REP 2.2 Infeed transport belt

REMOVAL

1. Switch off the main power switch and disconnect the power cord.
2. Remove the Infeed module according to REP 2.1
3. Remove the four screws (1).
4. Slide the drive coupling (5) off of the drive shaft (4) and remove the transport belt assembly.
5. Remove the belt (2) from the assembly.



INSTALLATION

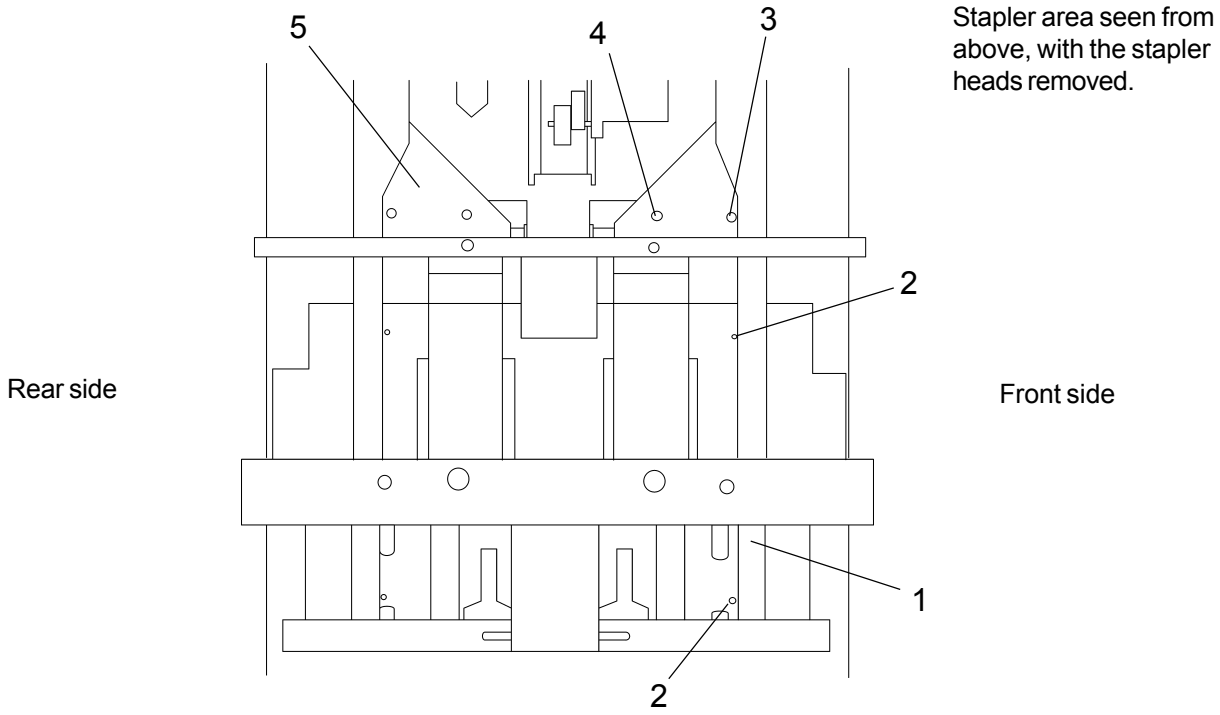
Installation is an exact reversed procedure of removal.

Note: Make sure the flat side on the bearing (3) is up when installing.

REP 2.3 Side guides

REMOVAL

1. Switch off the main power switch and disconnect the power cord.
2. Remove the infeed cover according to REP 1.4
3. Loosen the Ob screw (3) and the Ib screw (4) on the front side guide.
4. Remove the side guide.
5. Same procedure on the rear side guide.



INSTALLATION
Installation is an exact reversed procedure of removal.

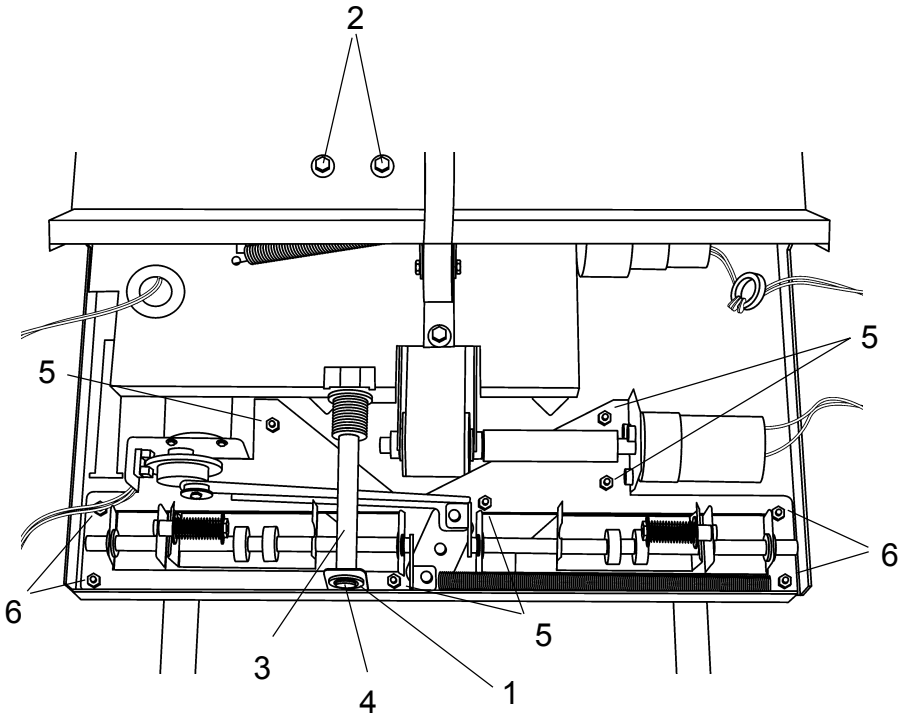
ADJUSTMENT

1. Move the front (1) sideguide to the two holes (2) in the paper path according to the figure.
2. Check the distance between the two holes and the sideguide. The distance should be equal ± 0.3 mm between the lower hole and the sideguide and the upper hole and the sideguide. If not go to step 3.
3. Loosen the Ob screw (3) and the IB screw (4) on the side guide. Adjust the sideguide according to step 2.
4. Perform the same check on the rear (5) sideguide, adjust if needed.

REP 2.4 Side guide assy.

REMOVAL

1. Switch off the main power switch and disconnect the power cord.
2. Remove the front and rear cover according to REP 1.1
3. Remove the infeed cover according to REP 1.4
4. Remove the infeed module according to REP 2.1
5. Remove the sideguides according to REP 2.3
6. Turn the infeed module up side down.
7. Remove the e-clip (1).
8. Remove the two screws (2) who secures the shaft.
9. Push the shaft (3) out of the hole (4).
10. Remove five nuts (5).
11. Remove four 7 mm screws (6).

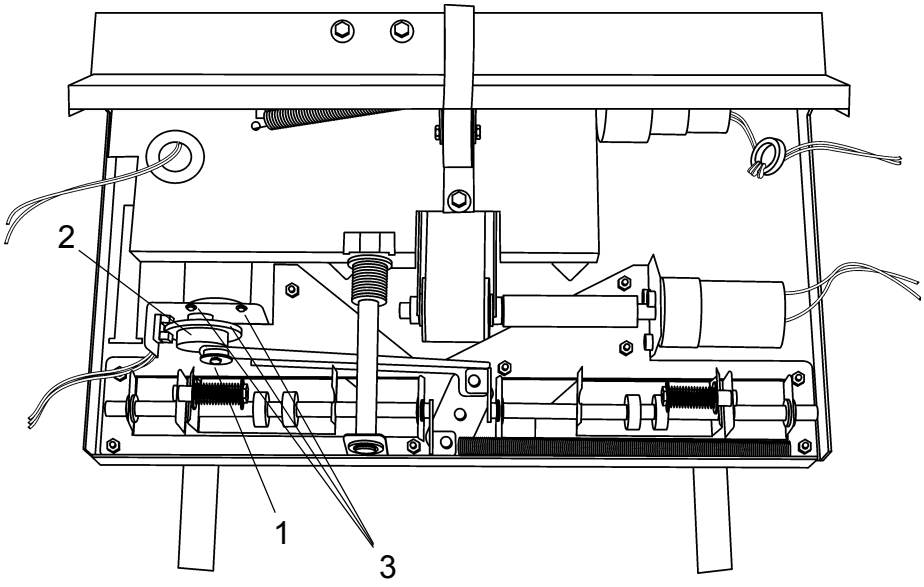


INSTALLATION
Installation is an exact reversed procedure of removal.

REP 2.5 Side guide jogger motor MOT 3

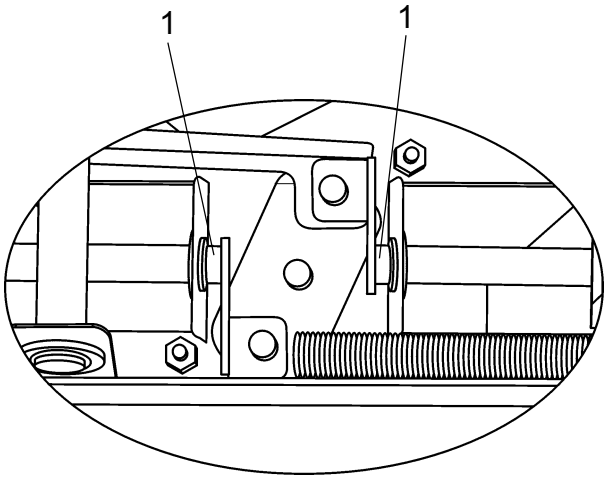
REMOVAL

1. Switch off the main power switch and disconnect the power cord.
2. Remove the front and rear cover according to REP 1.1
3. Remove the infeed cover according to REP 1.4
4. Remove the infeed module according to REP 2.1
5. Turn the infeed module up side down.
6. Remove 7 mm screw (1).
7. Remove wheel (2) by loosen one 4 mm allen screw.
8. Remove three 7 mm screws (3).
9. Cut two tie raps and remove the motor.



INSTALLATION

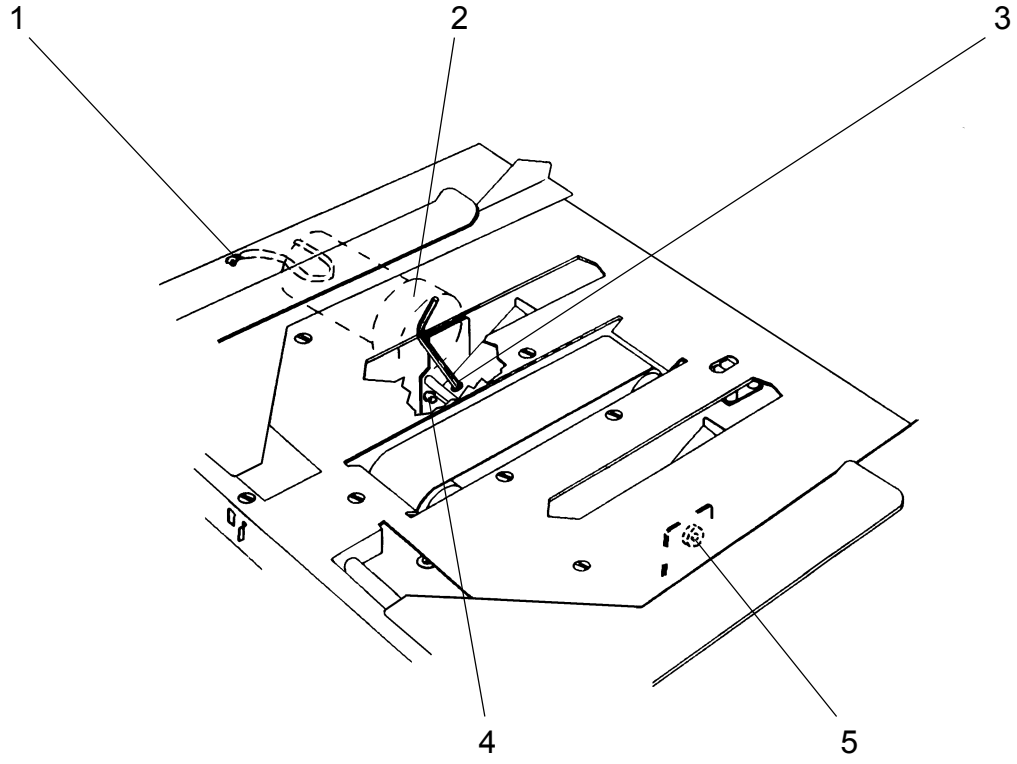
Installation is an exact reversed procedure of removal. But before you tighteen the three screws, you must put the side joggers in the out position, look at the picture above. You should have 0.1-0.3 mm play between the plate and the flange bushing on both sides (1). Tighteen the three screws.



REP 2.6 Back jogger motor MOT 7

REMOVAL

1. Switch off the main power and disconnect the power cord.
2. Remove the infeed module according to REP 2.1.
3. Disconnect the ground wire (1).
4. Loosen the setscrew in the collar (3).
5. Remove the motor (2).



INSTALLATION

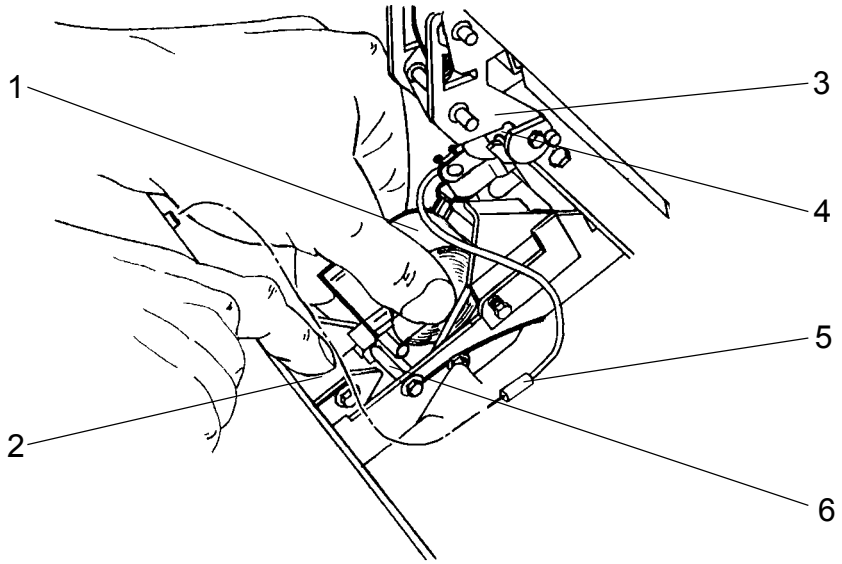
1. Install the motor.
2. Ensure that the pin on the motor is inserted in the grommet (4).
3. Push the collar (5) of the flange bushing firmly against the bracket.
4. Tighten the setscrew (3) on the flat of the shaft.
5. Connect the ground wire (1).
6. Install the infeed module according to REP 2.1.
7. Check/adjust the Staple/fold position according to REP 5.2.

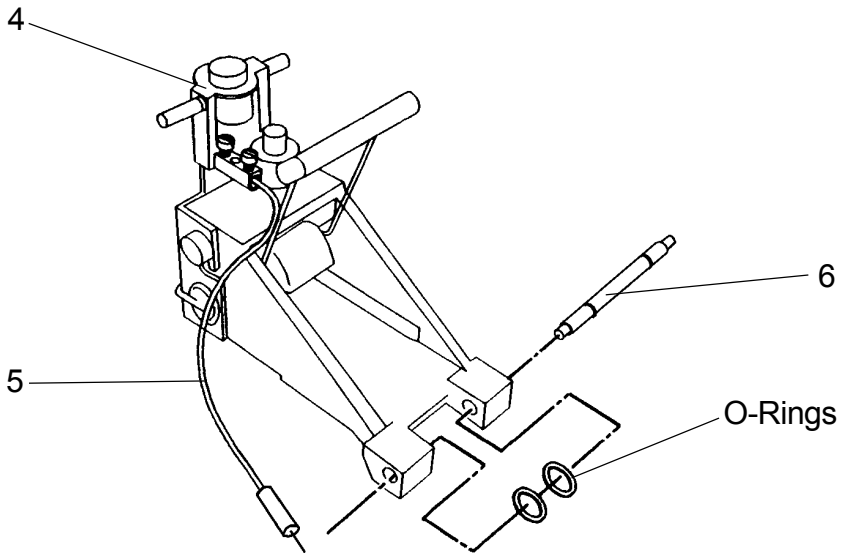
REP 3.1 Stapler head

REMOVAL

1. Switch off the main power switch and disconnect the power cord.
2. Disconnect the staple detection lead (5).
3. Push down latch (2) and lift the stapler head (1) out.

NOTE: If removing the stapler head use the pivot pin (6) from the old stapler head and install it in the new head.





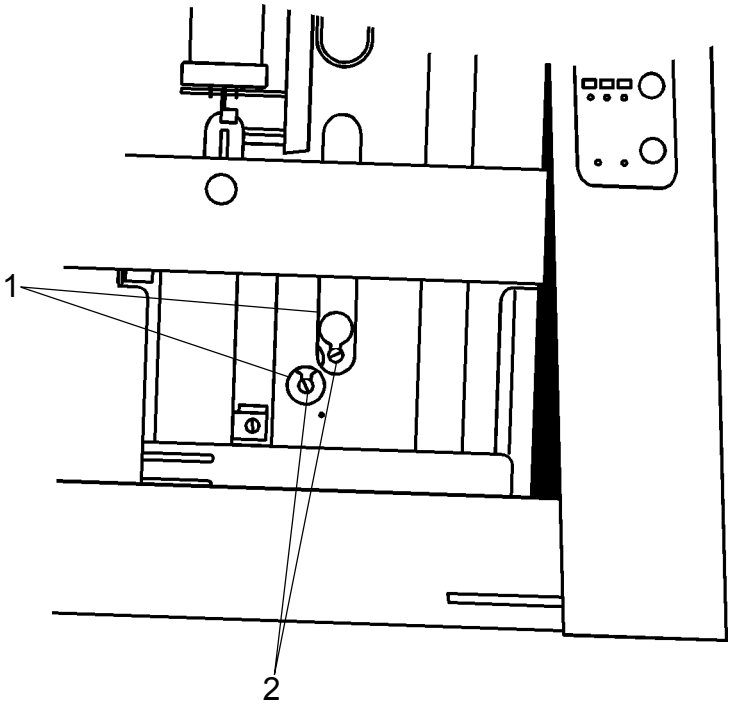
INSTALLATION

1. Install the plunger (4) in the plunger retraction swing arm (3).
2. Push the Stapler head down so that the pivot pin (6) locks under the latch (2).
3. Connect the staple detection lead (1).

REP 3.2 Stapled set stop gate solenoid SOL 2

REMOVAL

1. Move the front side guide to the outermost position.
2. Adjust the sheet size on the control panel to align the mounting screws (2) for the solenoid with the access holes (1) in the paper path.
3. Switch off the main power switch and disconnect the power cord.
4. Remove the infeed cover according to REP 1.3.
5. Cut the ty-wrap securing the cable.
6. Disconnect the solenoid connector.
7. Loosen the two screws (2).
8. Slide the solenoid towards the infeeder to remove.



INSTALLATION

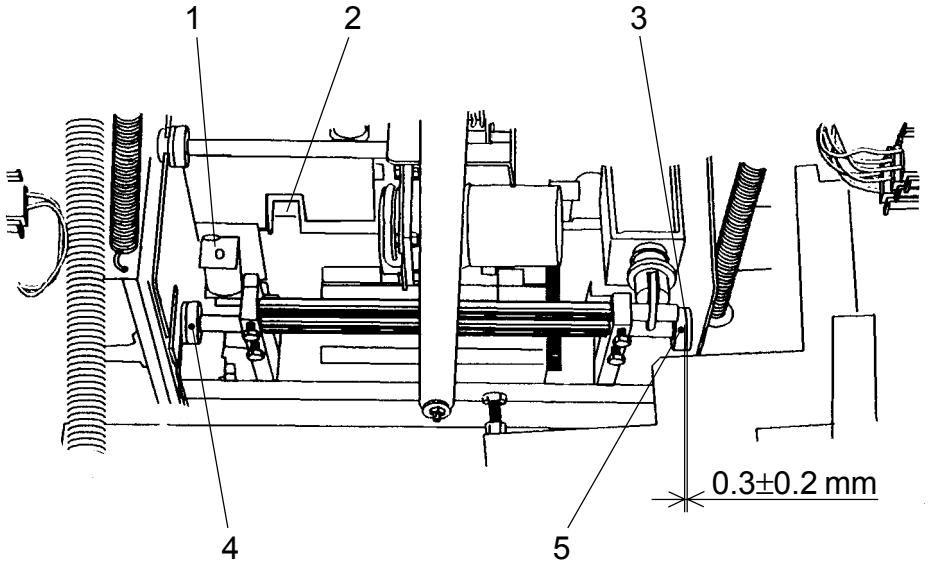
Installation is an exact procedure of removal.

REP 3.3 Staple stop gate position, adjustment

PURPOSE
The purpose is to position the Staple stop gate fingers in the center of each opening in the paper path so that binding does not occur.

1. Adjust to the smallest length size on the control panel.
2. Switch off the main power switch and disconnect the power cord.
3. Remove the Infeed cover according to REP 1.3.
4. Insert a 0.3 mm feeler gauge (3) to ensure 0.3 ± 0.2 mm endplay.
5. Disengage the Staple stop gate release solenoid (1). PO/PO

VIEW INSIDE INFEED COVER

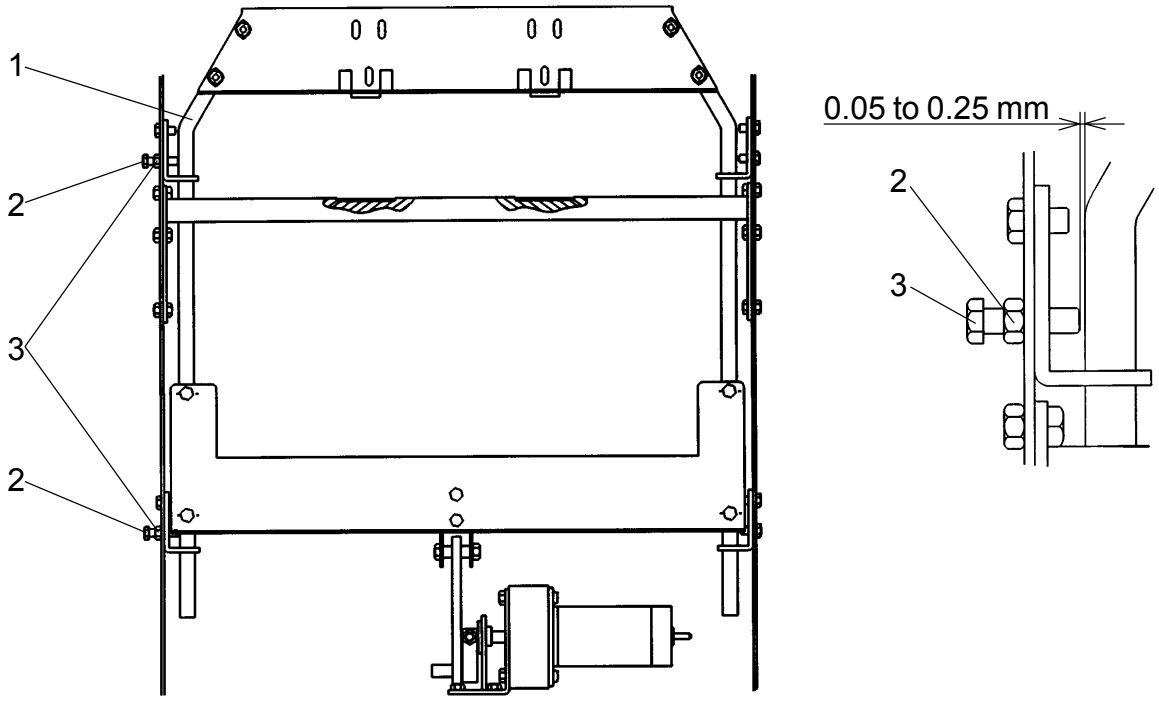


ADJUSTMENT
1. Check that the fingers (2) are centered in the openings in the paper path.
2. Loosen the two allen screws (4)(5) securing the collars.
3. Center the fingers (2).
4. Tighten the front allen screw(4).
5. Insert a 0.3 mm feeler gauge (3) to obtain 0.3 ± 0.2 mm endplay.
6. Tighten the rear allen screw (5).

REP 3.4 Stapler assembly drive bar position, adjustment

PURPOSE
The purpose is to limit the front-to-rear movement of the Stapler assembly drive bars without causing them to bind.

1. Switch off the main power switch and disconnect the power cord.
2. Remove the Infeed cover according to REP 1.3.
3. Remove the Front cover according to REP 1.1.



ADJUSTMENT

Top bearing
1. Push the drive bar (1) toward the rear.
2. Insert a feeler gauge to check that the gap is 0.05 mm to 0.25 mm.
3. Loosen the locknut (3).
4. Rotate the screw (2) to adjust.
5. Tighten the locknut (3).

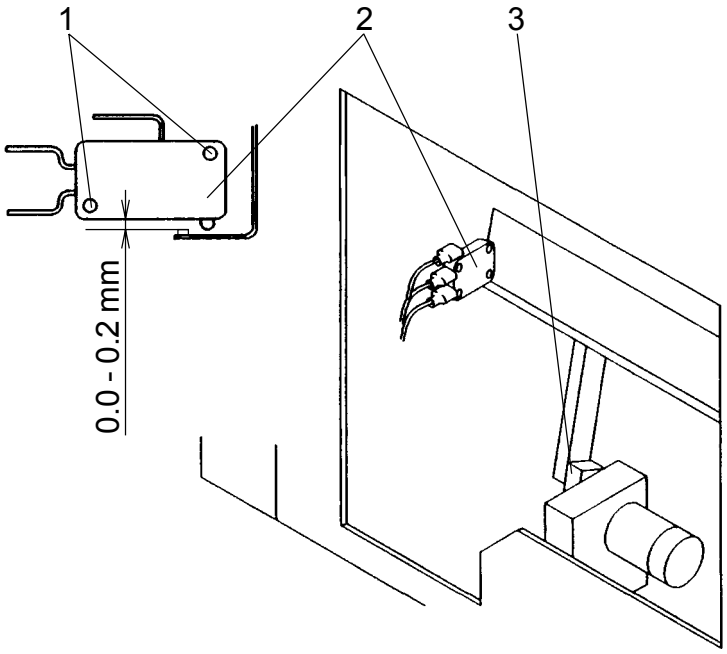
Bottom bearing
Adjustment of the Bottom bearing is performed the same way as adjustment of the Top bearing.

REP 3.5 Stapler home position, adjustment SW 1

PURPOSE

The purpose is to position the Stapler motor home position switch (SW 1) so that the Stapler motor (MOT 8) stops in the correct position after stapling a set.

1. Switch off the main power switch and disconnect the power cord.
2. Remove the infeed cover according to REP 1.3.
3. Rotate the motor linkage (3) to the top dead center.



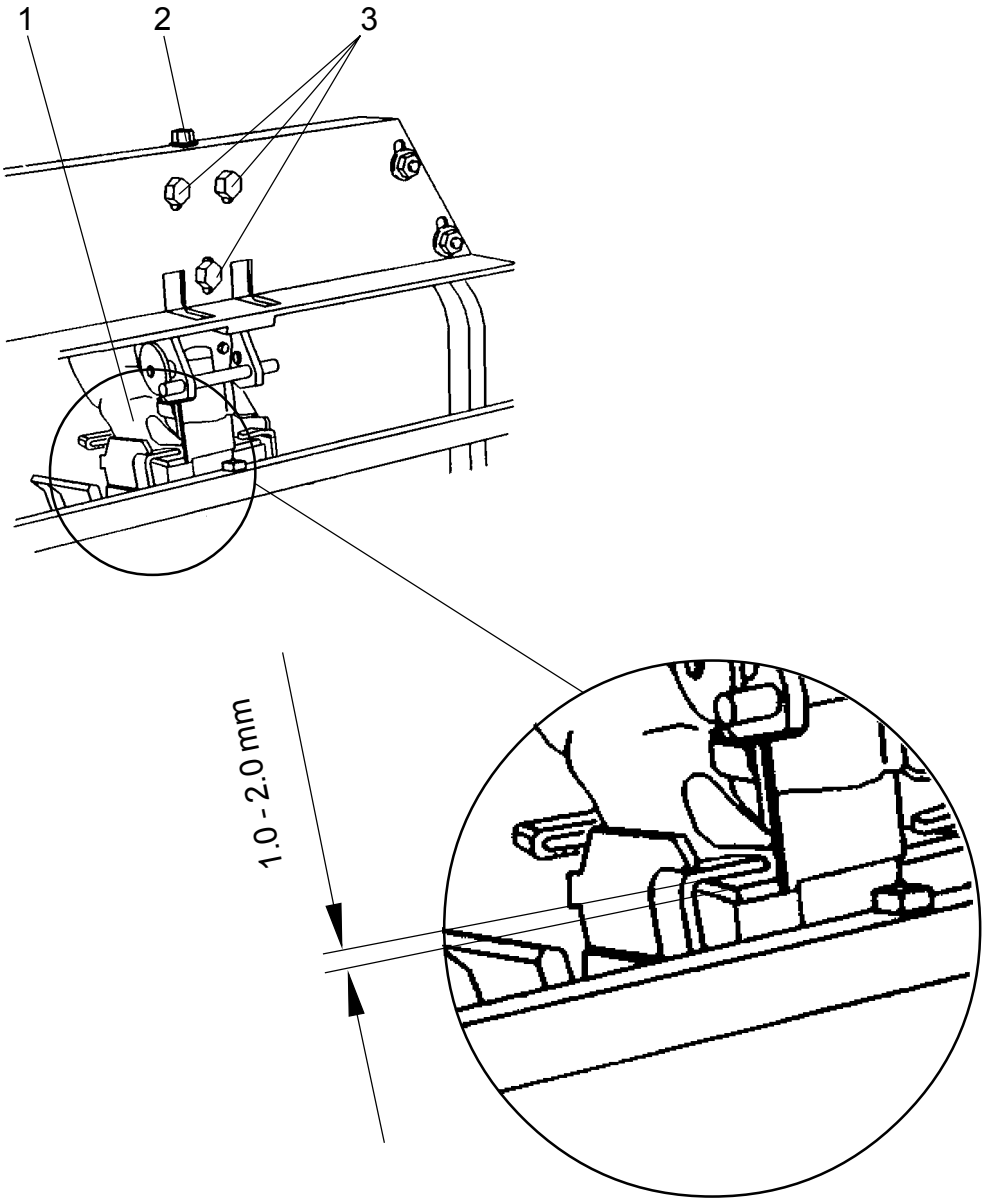
ADJUSTEMENT

1. Check that the gap is 0.0 mm to 0.2 mm.
2. Loosen the two screws (1).
3. Move the switch (2) to adjust.
4. Tighten the two screws (1).

REP 3.6 Stapler head retraction, adjustment

PURPOSE
The purpose is to ensure the staple feed.

1. Check/adjust the Stapler home position according to REP 3.5.
2. Switch off the main power switch and disconnect the power cord.



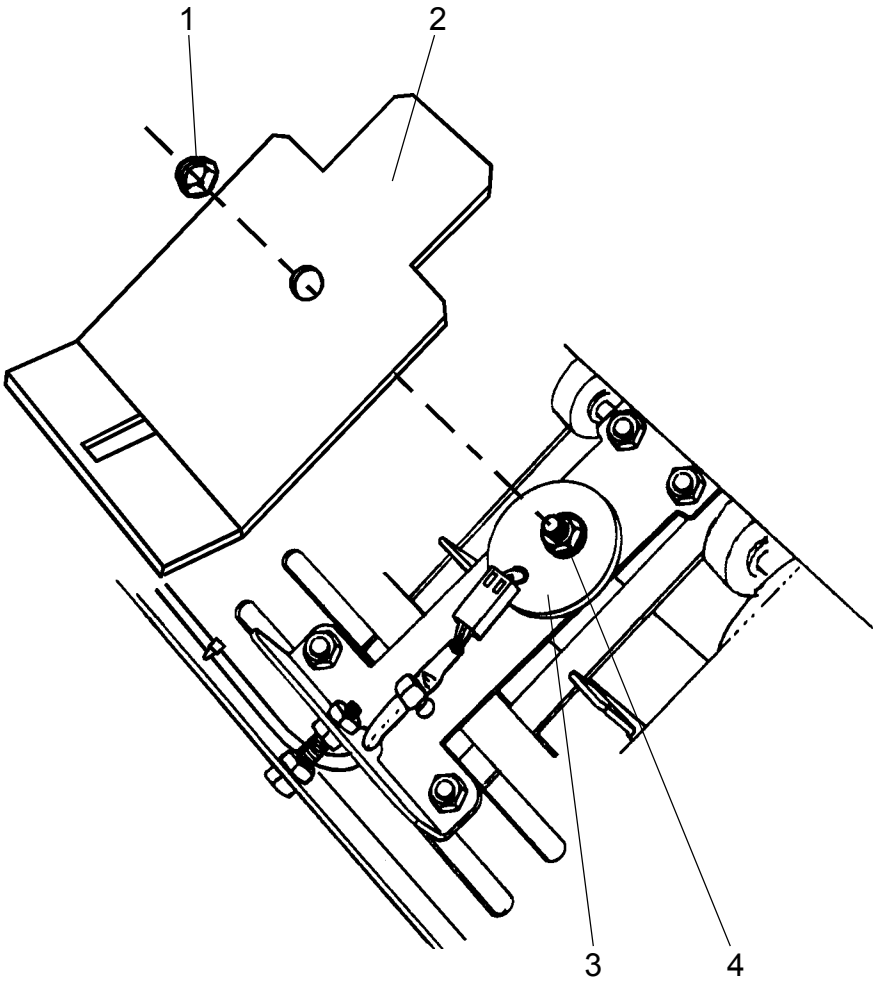
ADJUSTMENT
1. Push down the stapler head (1).
2. Check that the gap is 1.0 to 2.0 mm.
3. Loosen the three screws (3).
4. Rotate the screw (2) to adjust.
5. Tighten the three screws (3).

REP 3.7 Saddle stapling sensor, adjustment SEN 1

PURPOSE

The purpose is to position the saddle stapling sensor (SEN 1) so that it will switch on the stapler motor (MOT 8) when a set reaches the Staple stop gate.

1. Remove the rear cover according to REP 1.1 and pull out the interlock bypass switch actuator.
2. Remove the nut (1).
3. Remove the black shield (2).



ADJUSTMENT

1. The voltage between TP1 on the controller PCB and common ground should be greater than 2.2 VDC with the sensor blocked and less than 0.9 VDC unblocked.

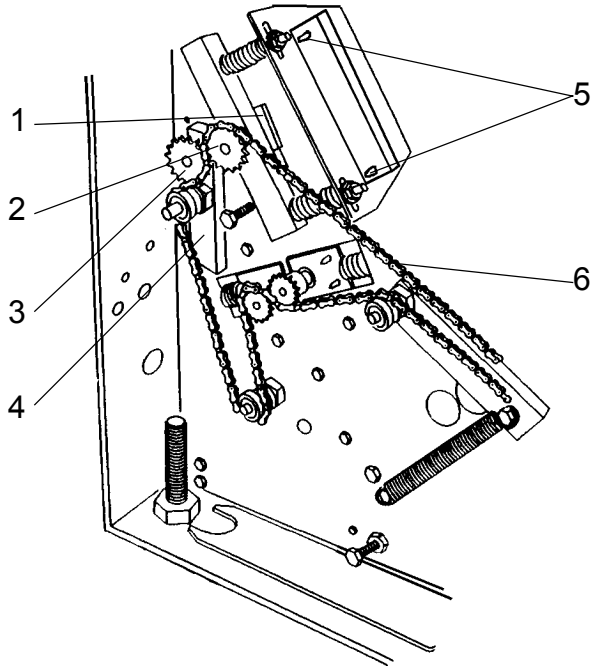
NOTE: Use white paper to block the sensor.

2. Loosen the nut (4).
3. Move the sensor (3) to obtain the voltages.
4. Tighten the nut (4).

REP 4.1 Upper folder roller

REMOVAL

1. Switch off the main power and disconnect the power cord.
2. Remove front and rear cover according to REP 1.1.
3. Remove the outfeed cover according to REP 1.3.
4. Remove the drive chain (6).
6. Note the position of the sprockets (2&3) on the shaft. Remove the sprockets and the plastic spacer from the front of the spring-loaded bearing block.
7. Remove the collar and the plastic spacer from the rear of the spring-loaded roll.
8. Remove the front bearing block (4) by removing the two screws from the inside of the machine.
9. Remove the front and rear spring-loaded bearing block assemblies by removing screws (5), front and rear, from the inside of the machine.
10. Note the position of the front plastic bearing (1). Remove the bearing.
11. Pull out the upper fixed roll to remove.
12. Pull out the upper spring-loaded roll to remove.



INSTALLATION / ADJUSTMENT

1. Installation is an exact reversed procedure of removal.

Note 1: Push the upper side of the bearing block (4) towards the outfeed before tightening.

Note 2: Before tightening the spring-loaded bearing blocks, use a feeler gauge to check that the endplay is 0.1 to 0.5 mm between the sprocket (2) and the plastic spacer. Also check that the enplay on the rear side is 0.1 to 0.5 mm between the collar and the plastic spacer.

2. Adjust the fold pressure according to REP 4.3.

REP 4.2 Lower folder roller

REMOVAL

Lower right folder roll

1. Switch off the main power and disconnect the power cord.
2. Remove front and rear cover according to REP 1.1.
3. Remove the drive chain (3).
4. Note the sprockets (2) position on the shaft and remove the sprocket (2).
5. Remove the spring (4) on both front and rear side.

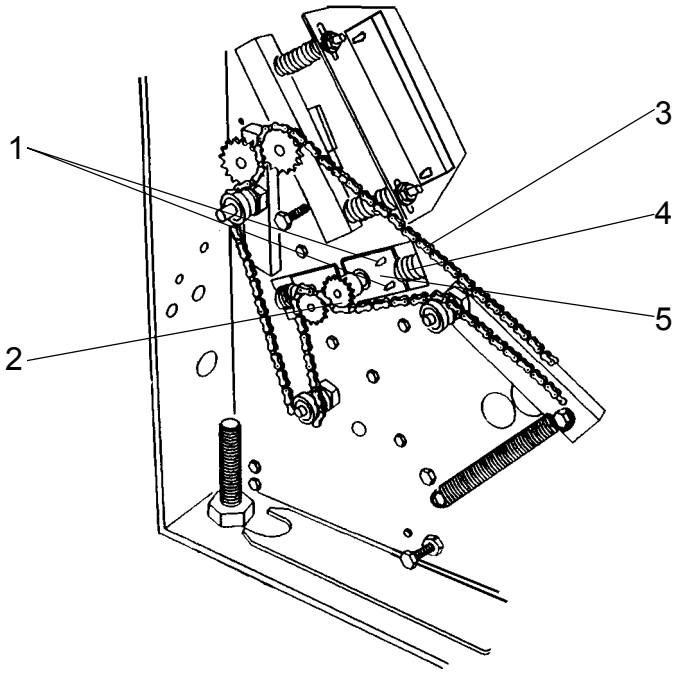
WARNING: When compressing, pry the spring onto a screwdriver in order to avoid injury when removing it.

7. Loosen the screws (1) from the inside of the the machine.
8. Wiggle the folder roll shaft up and down in order to release it from the brackets (5) securing the shaft.
9. Pull the folder roll through the cut out in the side frame until the shaft releases from the bearing on the opposite side. Then lift out the folder roll through the inside of the machine.

CAUTION: In order to compensate for variations between machines, there could be shim washers placed on the inside of the bushing at the end of the Folder roll shaft. Note the position of the washers when removing.

Lower left folder roll

Removal of the Lower left folder roll is performed the same way as removal of the Lower right folder roll, in addition the Outfeed cover has to be removed according to REP 1.3.



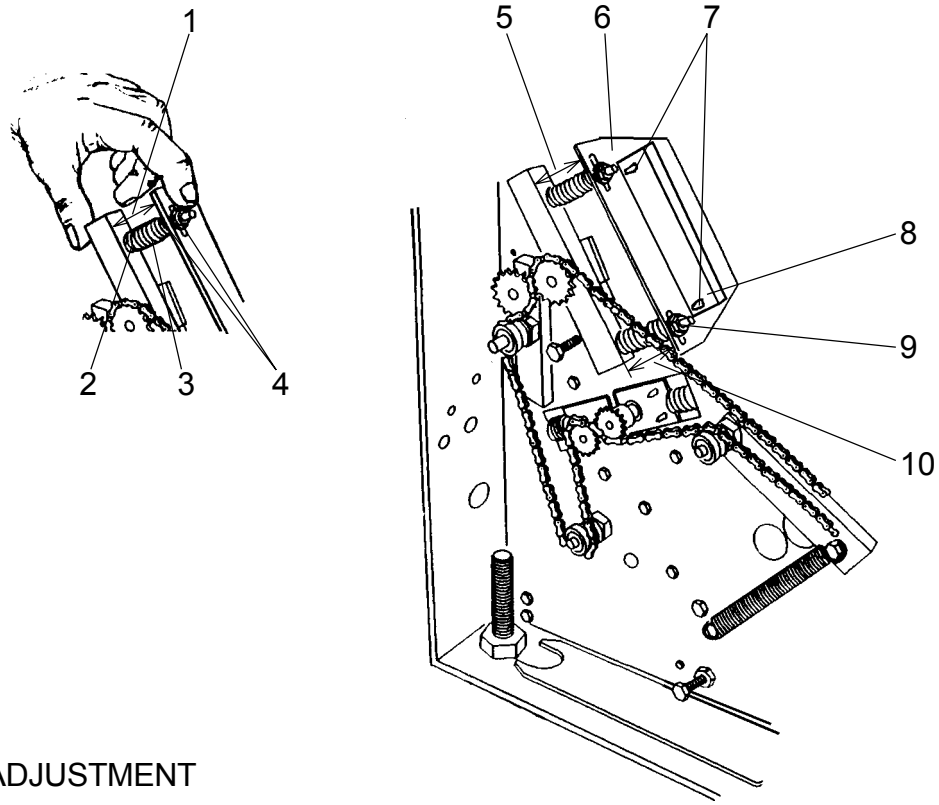
INSTALLATION

Installation is an exact reversed procedure of removal.

REP 4.3 Fold pressure, adjustment

PURPOSE
The purpose is to ensure that when running 2-5 sheets, only the soft spring (upper spring) will be compressed and when running more than 5 sheets both springs will be compressed.

1. Switch of the main power switch and disconnect the power cord.
2. Remove the front and rear cover according to REP 1.1.



ADJUSTMENT

Front fold pressure assembly
1. Compress upper spring (3) until head of screw (2) contacts bar.
2. Check (1) for 34.0 ± 0.5 mm.
3. Adjust by loosen one nut (4) (Pull spring down to access locking nut) and reposition the other to obtain the dimension. When tightening the nuts make sure the screw is in the outermost position of the slot.
4. Check (10) for 36.5 ± 0.5 mm.
5. Adjust nut (9) to obtain the dimension.
6. Check (5) for 36.5 ± 0.5 mm.

Note: Push downwards on the screw (9) when measuring the distance (5).

7. Adjust by loosen the two screws (7) (from the inside of the machine) and reposition the spring bracket (6) to obtain the dimension.
   When tightening the screws make sure the spring bracket (6) is parallel to the nut plate (8) in order to align the folder roll movement with the spring load .

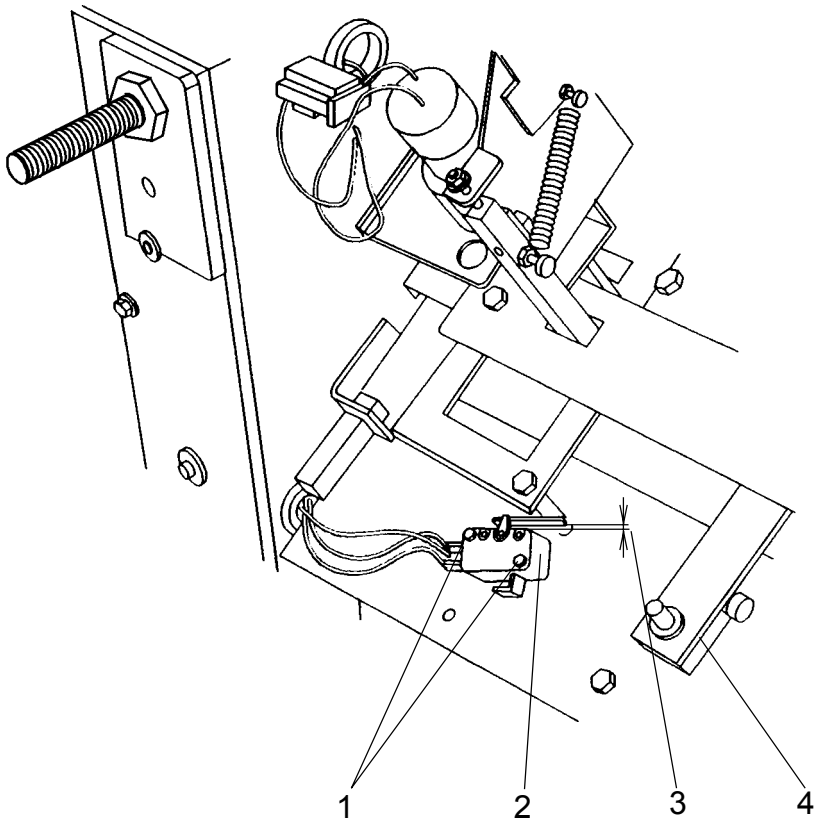
Rear fold pressure assembly
Adjustment of the Rear fold pressure assembly is performed the same way as adjustment of the Front fold pressure assembly.

REP 4.4 Fold knife home position, adjustment SW 2

PURPOSE
The purpose is to ensure that the Fold knife is clear from the paper path in home position.

1. Visually check that the Fold knife is not visible above the paper path.
2. Switch of the main power switch and disconnect the power cord.
3. Remove the outfeed cover according to REP 1.3.
4. Rotate linkage (4) to the down dead center.

SHOWN IN TIPPED POSITION FOR CLARITY



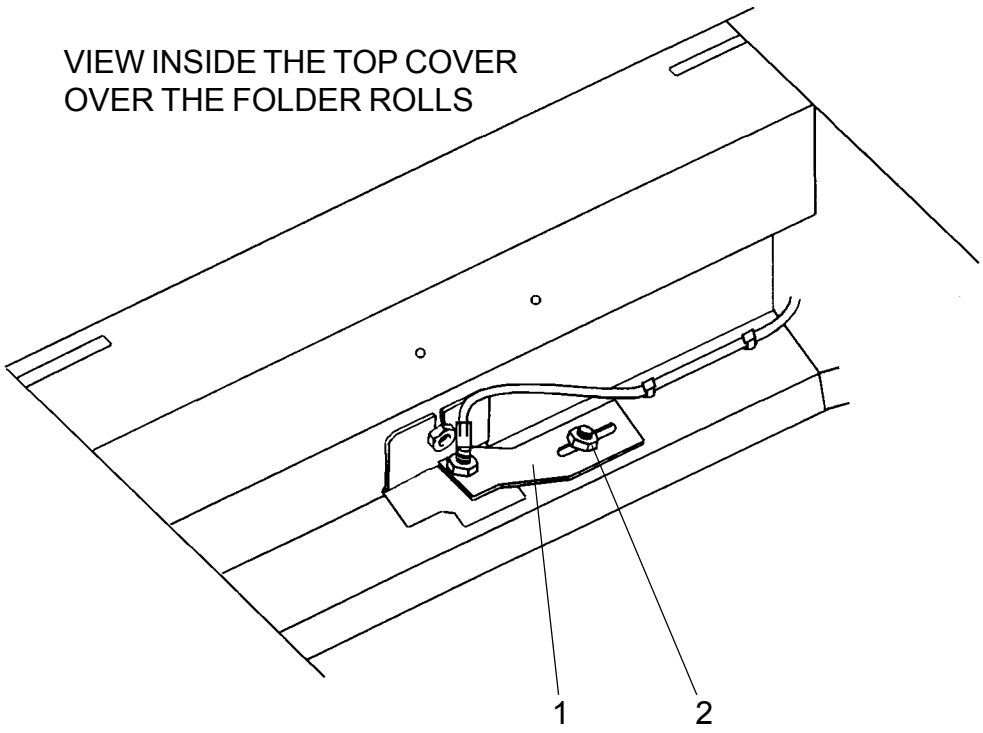
ADJUSTMENT
1. Check that the gap (3) between the switch housing and the actuator arm is 0.1 mm to 0.5 mm.
2. Loosen the two screws (1).
3. Move the switch (2) to adjust.
4. Tighten the two screws (1).

REP 4.5 Outfeed sensor, adjustment SEN 4

PURPOSE

The purpose is to position the Outfeed sensor (SEN 4) so that it will switch on the Stacker motor (MOT 1) when a set enters the stacker tray.

1. Remove the rear cover according to REP 1.1 and pull out the interlock bypass switch actuator.



ADJUSTMENT

1. The voltage between TP8 on the controller PCB and common ground should be greater than 2.2 VDC with the sensor blocked and less than 0.9 VDC unblocked.

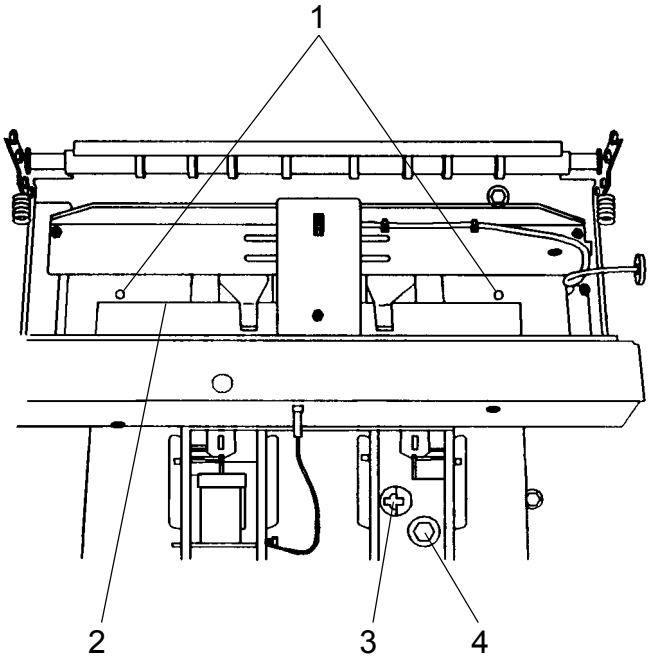
NOTE: Use white paper to block the sensor.

2. Loosen the nut (2).
3. Move the bracket (1) to obtain the voltages.
4. Tighten the nut (2).

REP 5.1 Staple stop gate parallelism, adjustment

PURPOSE
The purpose is to ensure that the staples are parallel to the edge of the sets.

1. Remove the rear Stapler head according to REP 3.1.
2. Move the side guides to the outermost position.
3. Select the Fold mode on the Control panel.
4. Select the Adjustment mode on the Control panel.
5. Fold an A4 (8.5“ x 11“) sheet of paper lengthwise by hand in order to form a straight edge.
6. Feed the folded paper sidewise into the machine so that the straight edge fold (2) is positioned against the Staple stop gate.
7. Adjust the sheet size on the control panel to align the straight edge fold (2) with the locating holes (1) in the paper path.
8. The straight edge fold (2) must align with both of the locating holes (1).



ADJUSTMENT
1. Loosen the screw (4).
2. Insert a screwdriver in the notches (3) and rotate to align the holes (1) with the straight edge fold (2).
3. Tighten the screw (4).
4. Check/adjust the Staple/Fold position according to REP 5.2.

REP 5.2 Staple/Fold position, adjustment

PURPOSE

The purpose is to ensure that the sets are folded in the center of the set, that the fold is parallel to the edge of the sets and that the staples are aligned with the fold.

1. Select Fold mode and Adjustment mode on the Control panel
2. Handfeed a 2-sheet set using A4 (8.5“x 11“) paper.
3. Adjust the sheet size on the control panel to align the Back jogger with the trail edge of the set without producing a buckle in the set.
4. Select Run mode and run a few sets.
5. Check that the fold is parallel to the edge of the set. If not perform Adjustment 1.

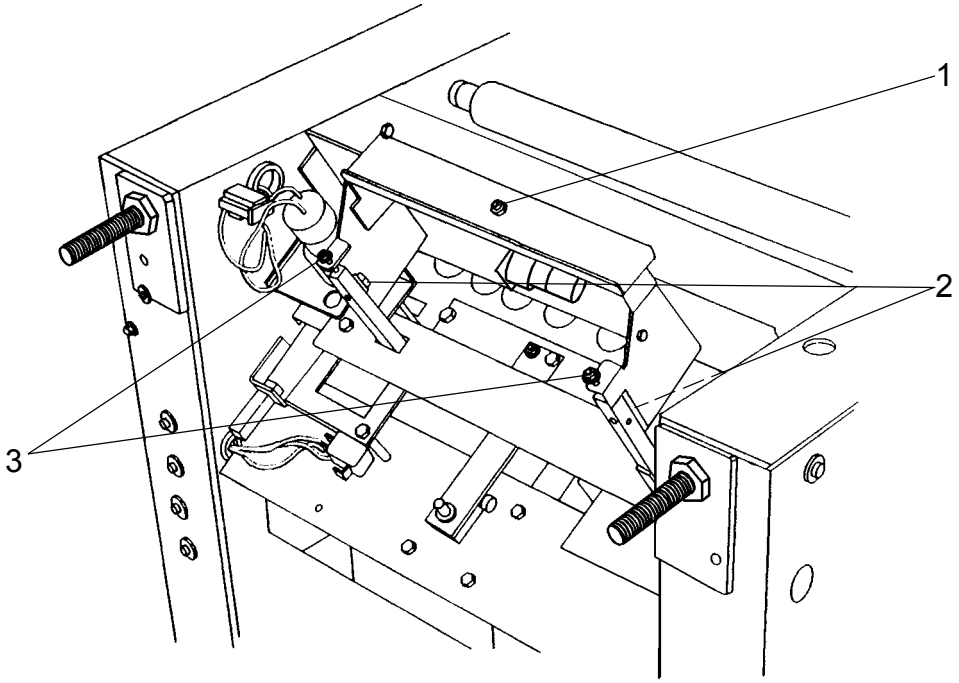
NOTE: After adjustment 1 is performed , return to this procedure and continue from step 1.

6. Check that the fold is in the center of the set (that the edges of the booklet are aligned). If not perform Adjustment 3.

NOTE: After adjustment 3 is performed , return to this procedure and continue.

7. Repeat step 1 to 4 but run 4-sheet sets in Staple/Fold mode.
8. Check that the staples are aligned with the fold. If not perform Adjustment 2.

SHOWN IN TIPPED POSITION FOR CLARITY



ADJUSTMENT 1

1. Adjust to the largest sheet size on the control panel.
2. Place the stacker module in upright position.
3. Switch of the main power switch and disconnect the power cord.
4. Loosen the two mounting screws (2).
5. Rotate the two screws (3) to adjust.
6. Push in the fold stop assembly when tighten the two screws (2).
7. Repeat Adjustment 1 until the fold is parallel to the edge of the set.

ADJUSTMENT 2

1. Loosen the locknut and rotate the setscrew (1) clockwise if the staples are located on the top, counterclockwise if the staples are located on the bottom and tighten the locknut.

NOTE: Top of the booklet is the side that contacts the output wheel.

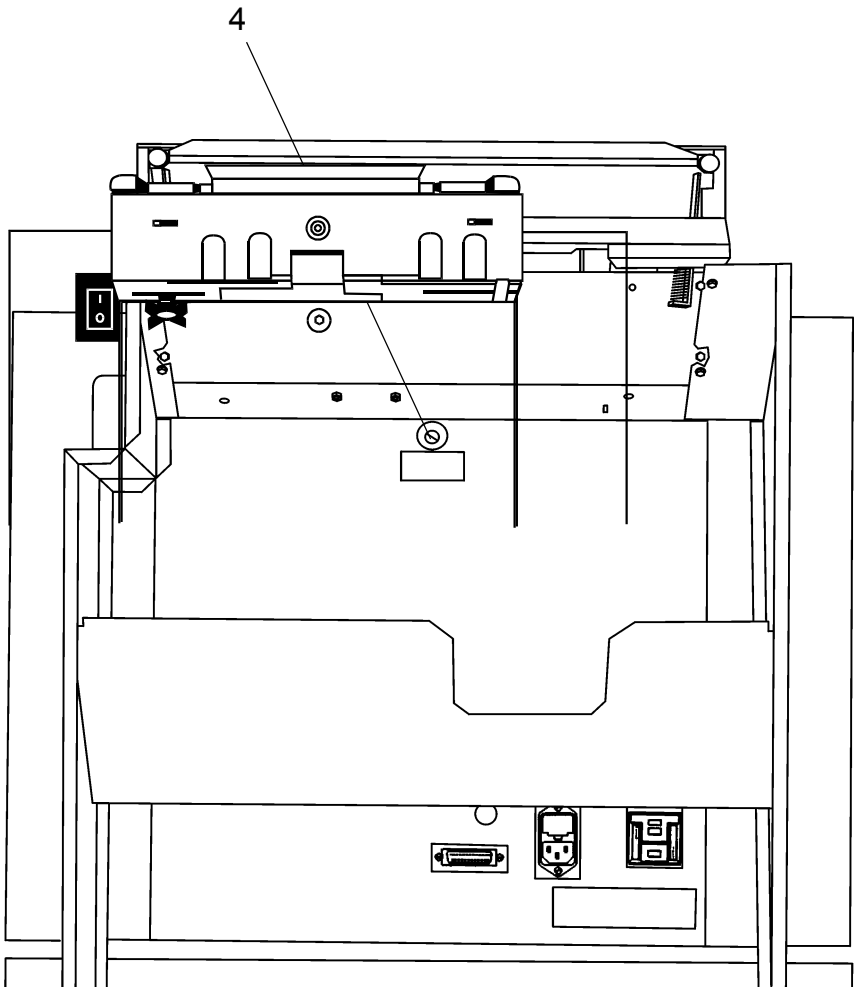
2. Repeat Adjustment 2 until the staples are aligned with the fold.

ADJUSTMENT 3

1. Rotate screw (4) clockwise to lengthen the top of the booklet, counter clockwise to shorten the top of the booklet.

NOTE: Top of the booklet is the side that contacts the output wheel.

2. Select Adjustment mode on the Control panel
3. Handfeed a 2-sheet set using A4 (8.5“x 11“) paper.
4. Adjust the sheet size on the control panel to align the Back jogger with the trail edge of the set without producing a buckle in the set.
5. Select Run mode and run a few sets.
6. Repeat Adjustment 3 until the edges of the booklet are aligned.



REP 5.3 Stapler position to anvil, adjustment

PURPOSE
The purpose is to ensure that the stapler assemblies are aligned correctly to the anvils.

1. Run a 2-sheet set in the edge staple mode.
2. Check that the staples are formed properly. The ends of the staples should be folded so that they are aligned with the middle of the staple.

 Good Staple

 Bad Staple

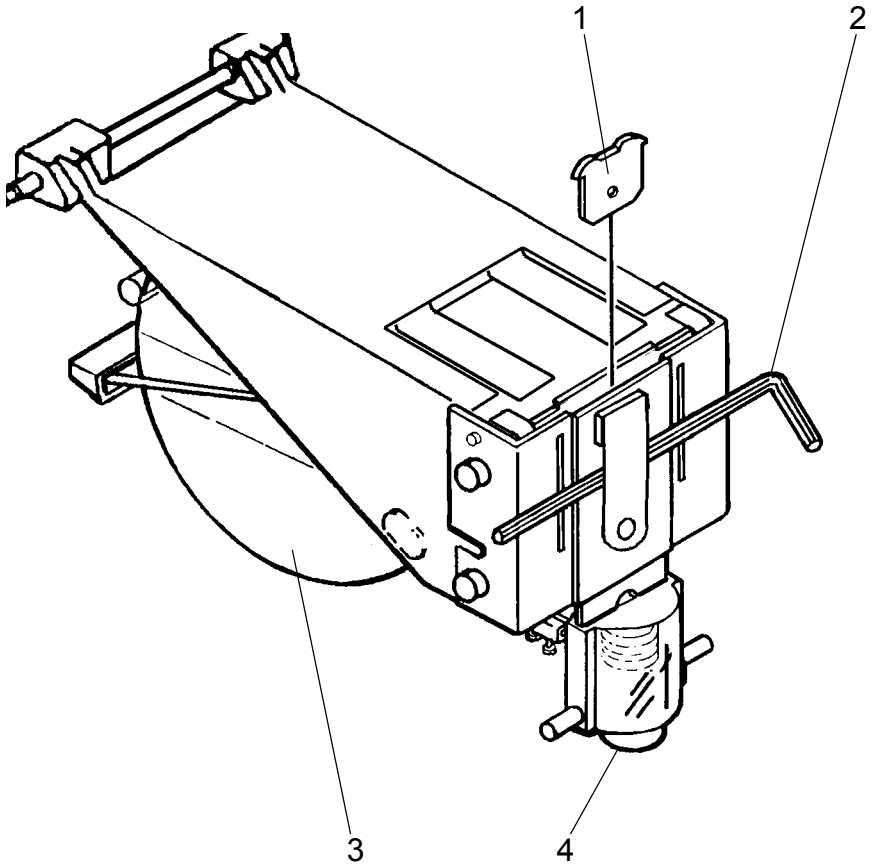
3. Switch off the main power switch and disconnect the power cord.
4. Remove the Stapler head according to REP 3.1.
5. Push the plunger (4) manually and note where the staple exits the Stapler head, then return the plunger to the home position.

WARNING: Be careful when handeling the Stapler head. The ends of the staples are sharp and difficult to see.

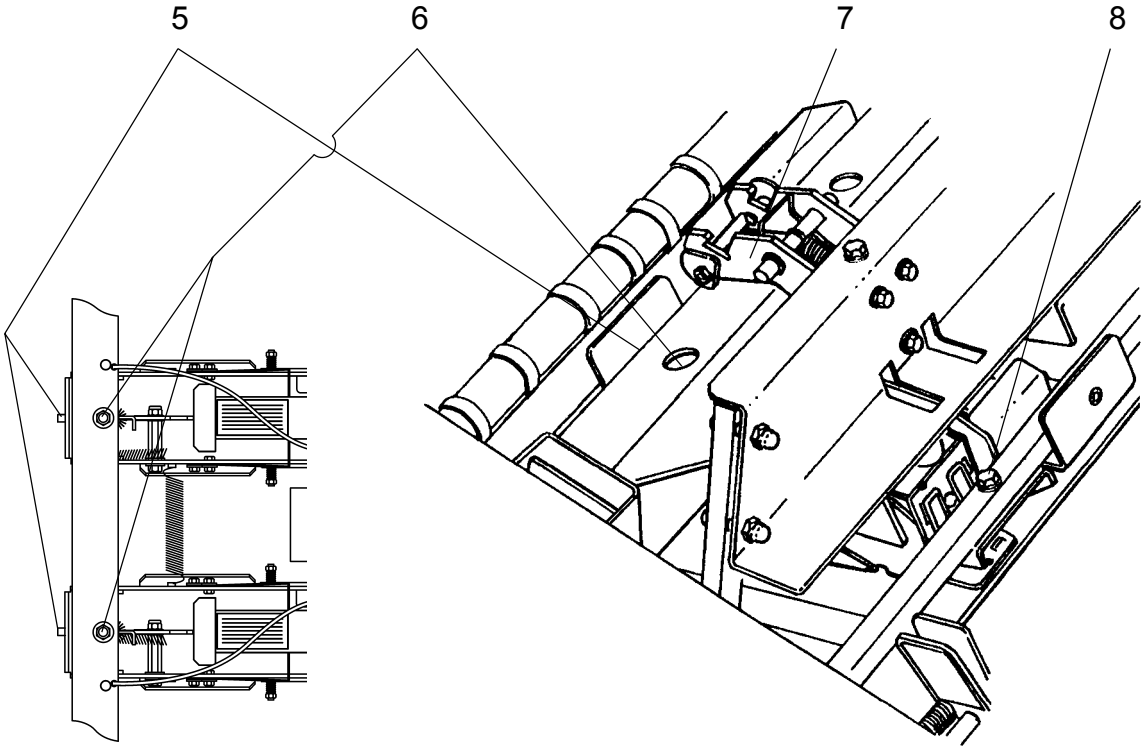
6. Remove the Staple cartridge (3) and tear the staples at the tear line.
7. Reinstall the cartridge (3) but do not make any staple strokes.
8. Position an allen wrench (2) - app. 2 mm - as shown to relieve the pressure on the staple former.
9. Install the Alignment tool (1) as shown.

NOTE: Head alignment tool is located at the bottom of the front side frame.

10. Remove the allen wrench (2).



11. Reinstall the Stapler head only on the pivot pin side not in the plunger retraction swing arm (7).



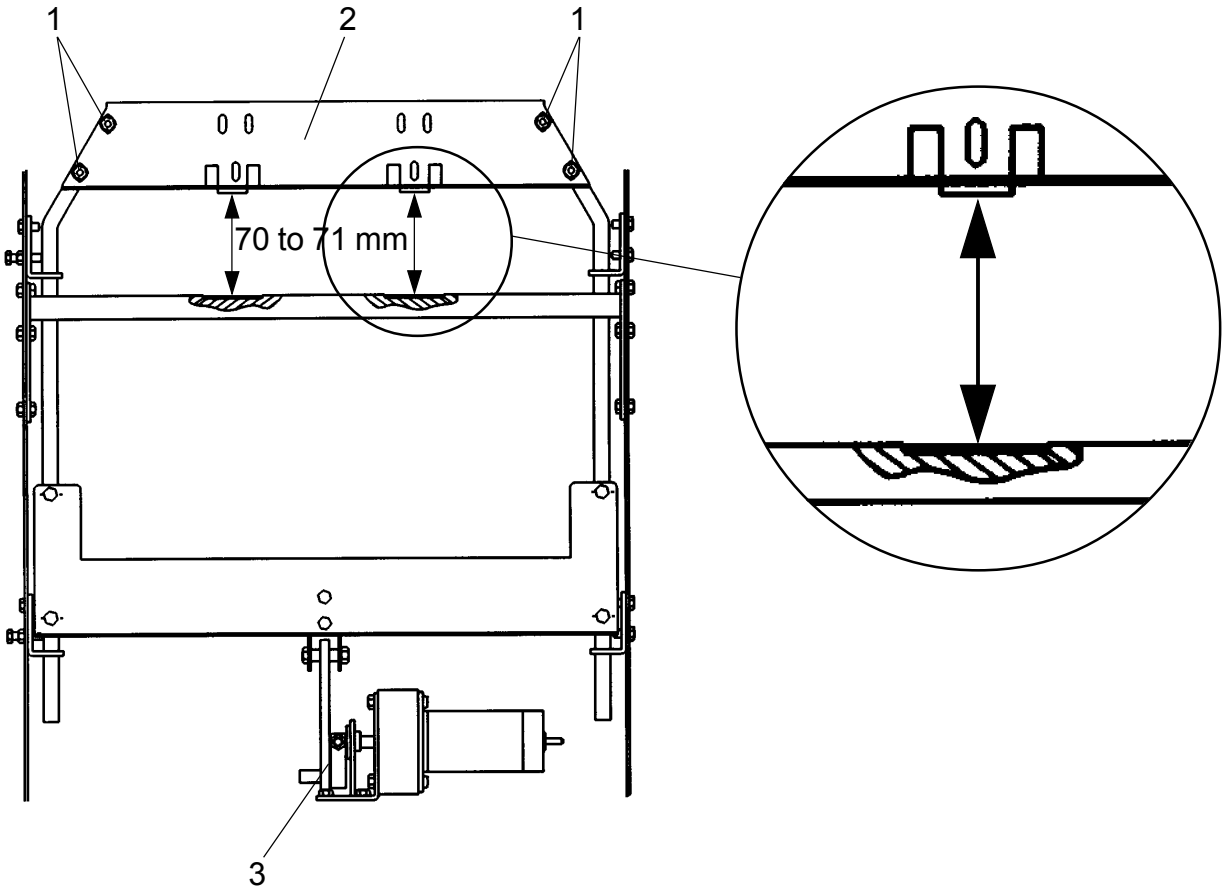
ADJUSTMENT

1. Loosen the left (6) and the right (8) mounting screw.
2. Rotate the adjusting screw (5) counterclockwise as far as it will go without removing it.
3. Push down the Stapler head and move it by turning the adjustment screw (5) clockwise until the tool engages the slot in the anvil.
4. Tighten the left mounting screw (6).
5. Position the Stapler head so that the Alignment tool is centered (side to side) in the slot.
6. Tighten the right mounting screw (8).
7. Return the machine to operational condition.
8. Run a test set to verify the adjustment.

REP 5.4 Stapler pressure, adjustment

PURPOSE
The purpose is to ensure that adequate pressure is applied to the Stapler heads when forming the staples.

1. Switch off the main power switch and disconnect the power cord.
2. Remove the Infeed cover according to REP 1.3.
3. Remove the Stapler head according to REP 3.1.
4. Rotate the motor linkage (3) to the down dead center.



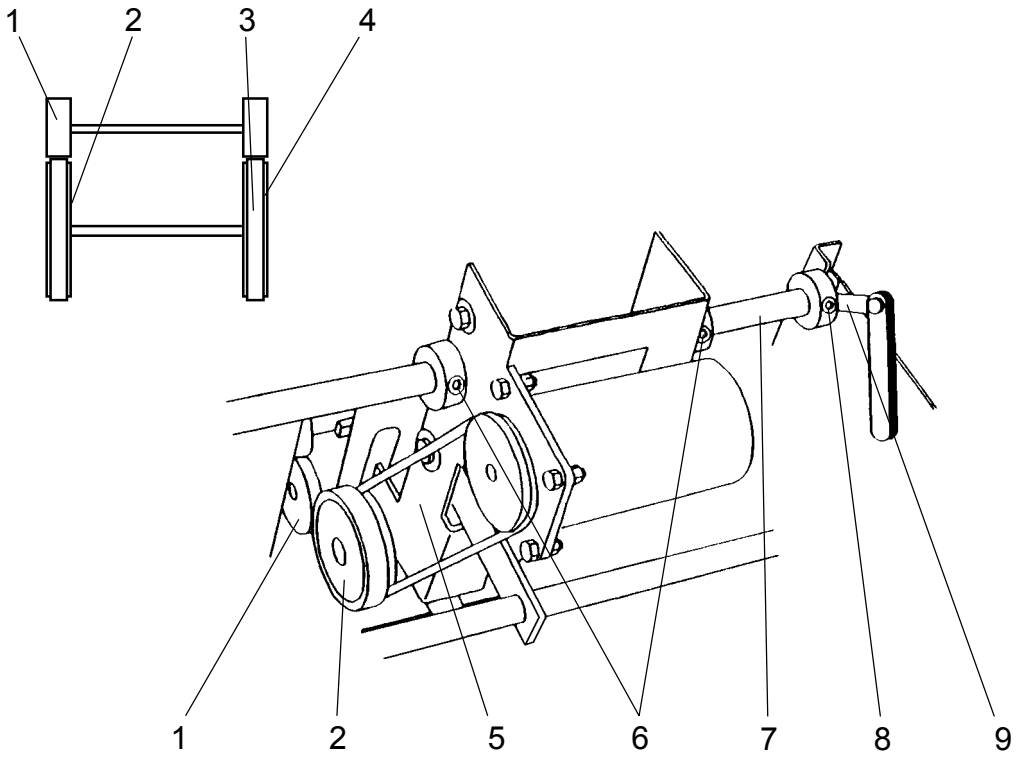
ADJUSTMENT
1. Use a sliding caliper and check that the distance between the anvil and the upper side of the sheet plate is 70 mm to 71 mm.
   Check both front and rear side.
2. Loosen the four screws (1).
3. Move the upper stapler bar (2) to adjust.
4. Tighten the screws (1).
5. Check/Adjust the Stapler assembly drive bar position according to REP 3.4.

REP 5.5 Stapled set transport drive alignment, adjustment

PURPOSE

The purpose is to horizontally align the Stapled set drive rollers with the Idler wheels to ensure the correct set transportation into the fold area.

1. Adjust to the smallest sheet size on the control panel.
2. Ensure that the tires (3) are centered on the hubs (4) of the drive rollers.
3. Manually move the Drive rollers (2) up against the Pressure rollers (1) by pushing the Staple stop gate down.
4. Push down the staple stop gate and visually check that the Drive rollers are centered on the Pressure rollers.



ADJUSTMENT

1. Switch off the main power switch and disconnect the power cord.
2. Remove the Infeed cover according to REP 1.3.
3. Loosen the allen screw (8).
4. Move the shaft (7).
5. Insert a 0.3 mm feeler gauge (9) to ensure 0.3 ± 0.2 mm endplay.

NOTE The endplay 0.3 mm is to prevent the Staple stop gate shaft from binding.

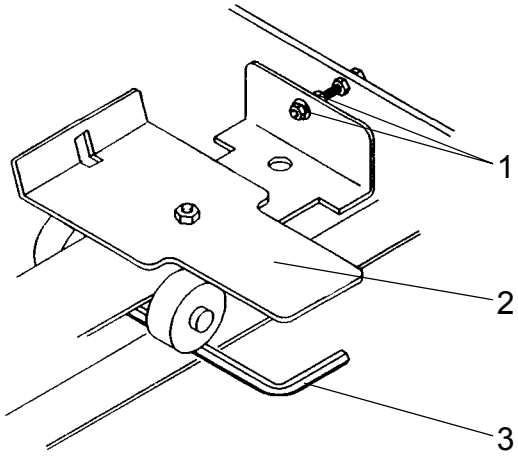
6. Tighten the allen screw (8).
7. Loosen the two allen screws (6).
8. Move the assembly (5) so that the tires (3) are centered on the Pressure rollers (1).
9. Tighten the two allen screws (6).

REP 5.6 Pressure roller height, adjustment

PURPOSE
The pupose is to position the Pressure rollers for the correct engagement with the Drive rollers.

1. Adjust to the largest sheet size on the Control panel.
2. Switch off the main power switch and disconnect the power cord.
3. Rotate the shield (2).

VIEW OF STAPLED SET TRANSPORT AREA



ADJUSTMENT
1. Check that the gap (3) is 4 mm to 5 mm.

NOTE: Use a 4 mm allen wrench - as shown on drawing - to check that it fits in the gap and a 5 mm allen wrench to check that it does not fit in the gap.

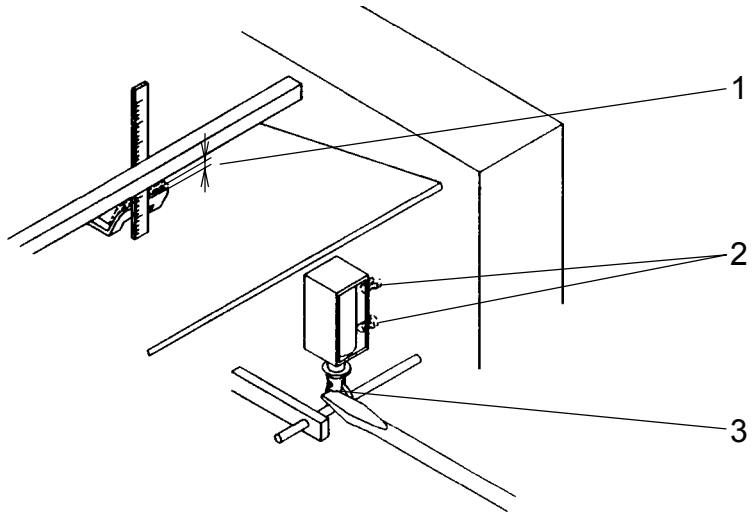
2. Loosen one nut (1) and reposition the other (1) as required to obtain the gap.
3. Check/adjust the Stapled set transport solenoid according to REP 5.7.

REP 5.7 Stapled set stop gate release solenoid, adjustment SOL 1

PURPOSE
The purpose is to ensure adequate engagement of the stapled set drive rollers.

1. Check/adjust the Pressure roller height according to REP 5.6.
2. Adjust to the smallest sheet size on the control panel.
3. Switch off the main power switch and disconnect the power cord.
4. Remove the infeed cover according to REP 1.3.

VIEW SHOWN WITH INFEED MODULE
REMOVED FOR CLARITY



ADJUSTMENT
1. Measure the hight (1).
2. Push and hold the plunger (3) up.

NOTE: Push on the plunger of the solenoid only, do not push on the linkage. If pushing on linkage the measurement will not be correct.

3. Measure the hight (1) again. The difference should be 0.5 mm to 1.0 mm
4. Loosen the two screws (2) and move the solenoid to obtain the dimension.
5. Tighten the screws.

PRG 6.1 Reset of EEPROM values

PURPOSE

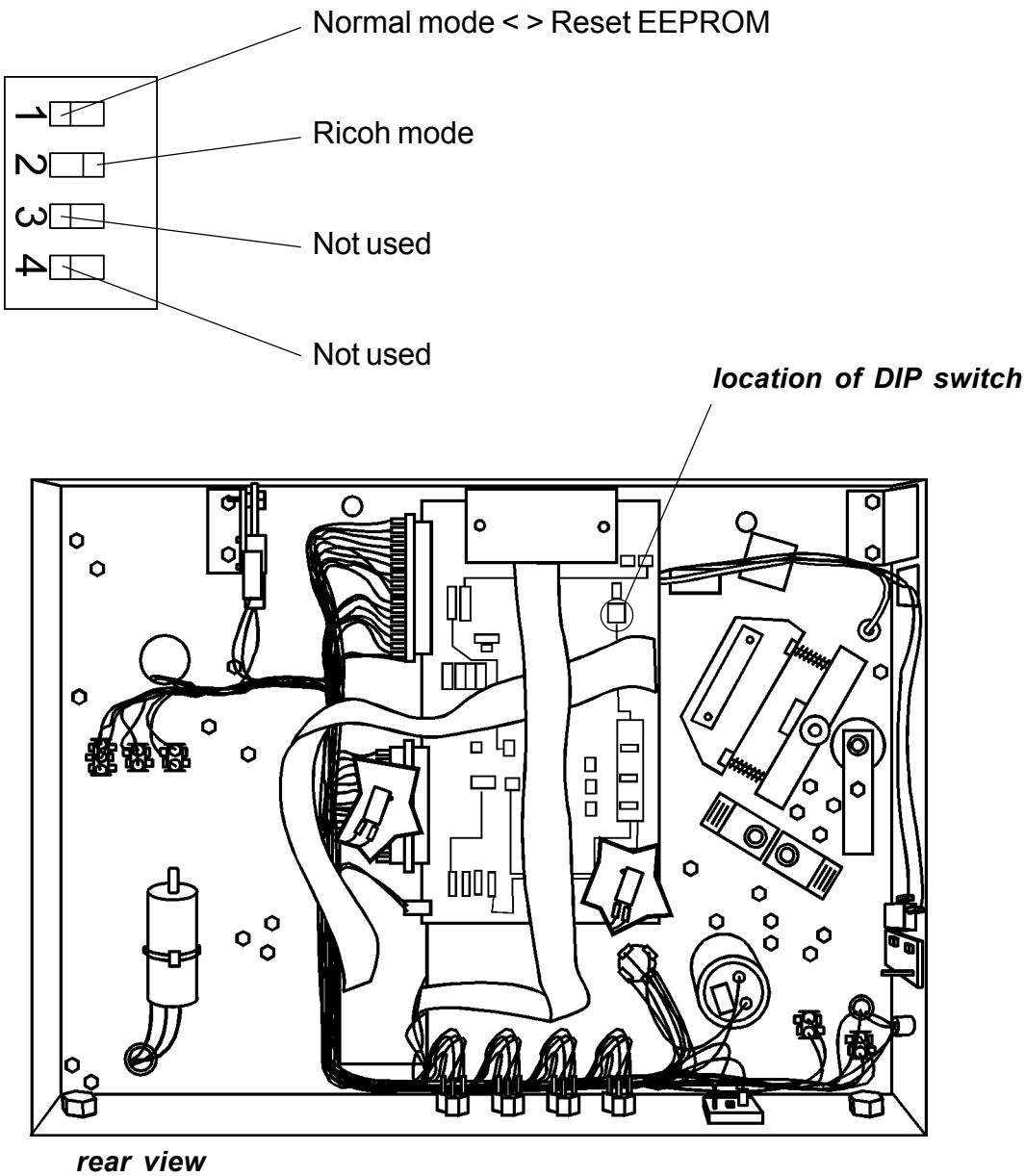
The purpose is to transfer the original values from the Micro processor to the EEPROM. This procedure should be performed in response to minor logic problems such as failure in the operating sequence. Also perform this procedure if the controller PCB is replaced or if the power is lost during SDS.

PROCEDURE

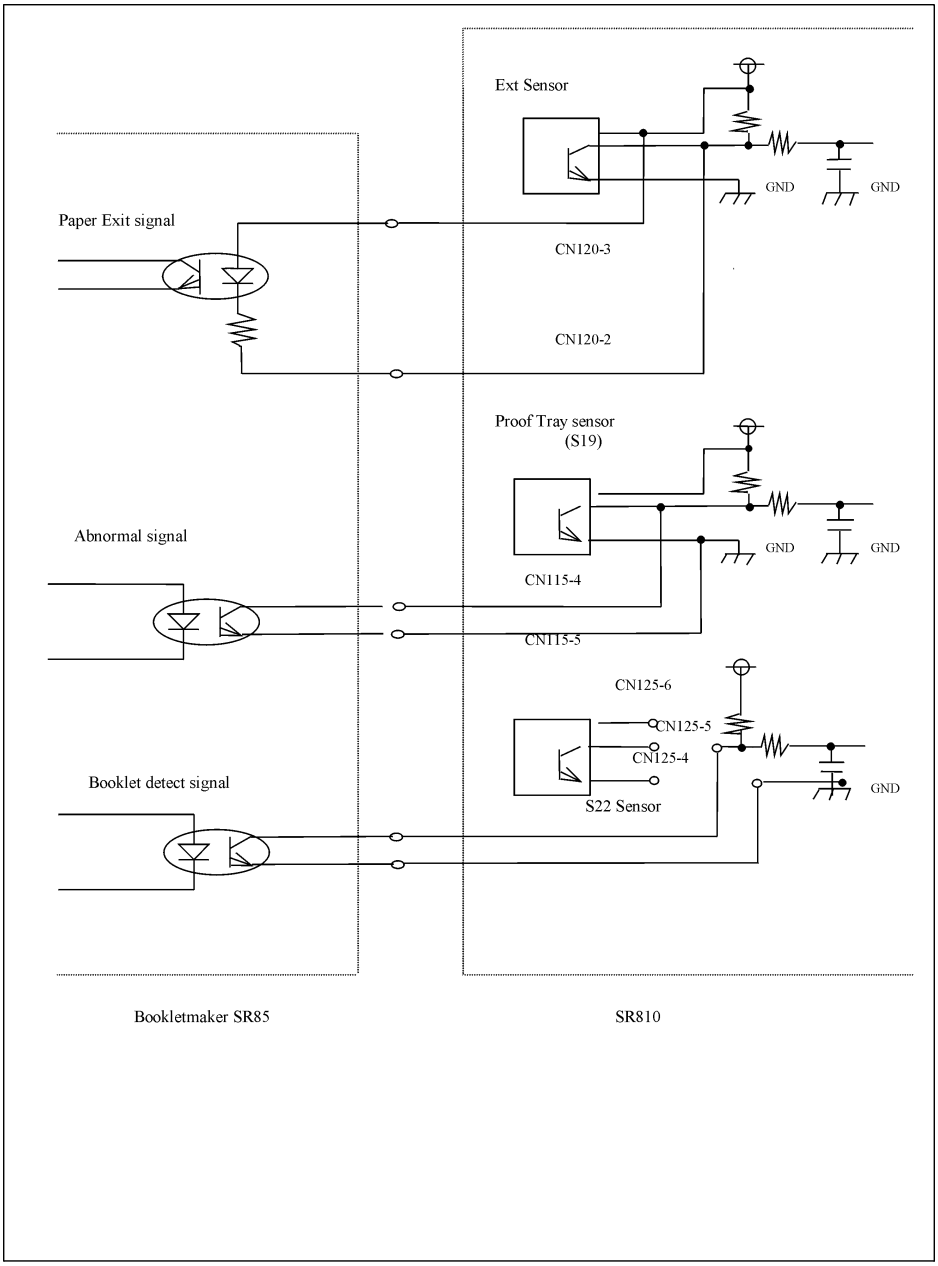
1. Switch of the main power switch.
2. Remove the rear cover according to REP 1.1.
3. Move DIP switch no. 1 on the controller PCB to the right (right when facing the PCB).
4. Switch on the main power switch.

- The adjust LED on the control panel is flashing: The processor is transferring the default values to the EEPROM.

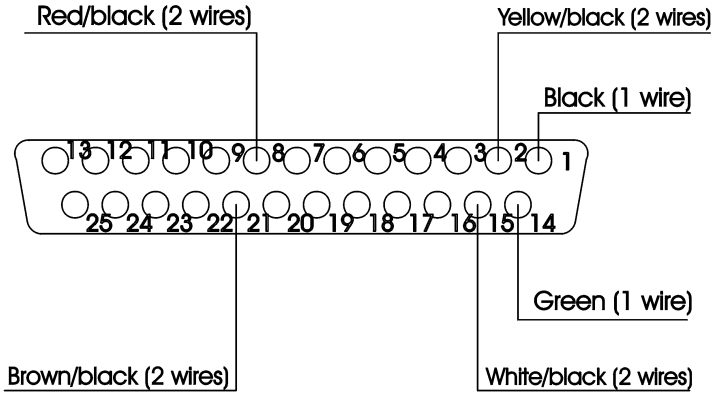
5. When the adjust LED stops flashing, switch off the main power switch.
6. Move DIP switch no. 1 on the controller PCB to the left (left when facing the PCB).
7. Reinstall the rear cover according to REP 1.1.



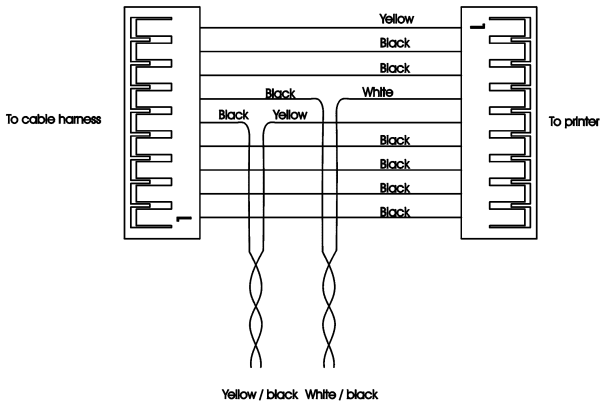
rear view


Ext Sensor
GND
GND
Paper Exit signal
CN120-3
CN120-2
Proof Tray sensor
(S19)
GND
GND
Abnormal signal
CN115-4
CN115-5
CN125-6
CN125-5
CN125-4
GND
Booklet detect signal
S22 Sensor
Bookletmaker SR85
SR810

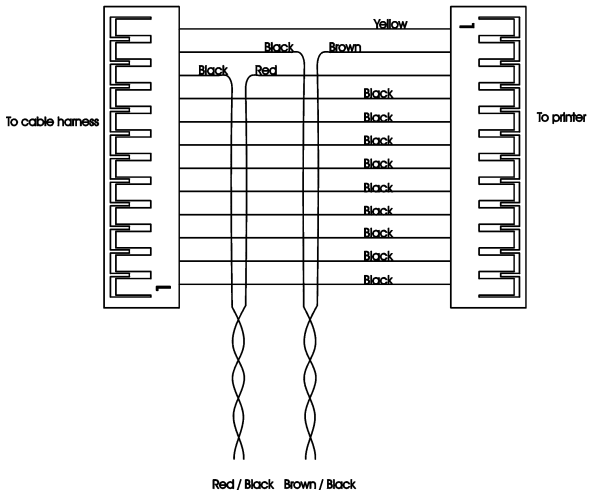
D-Sub Bookletmaker



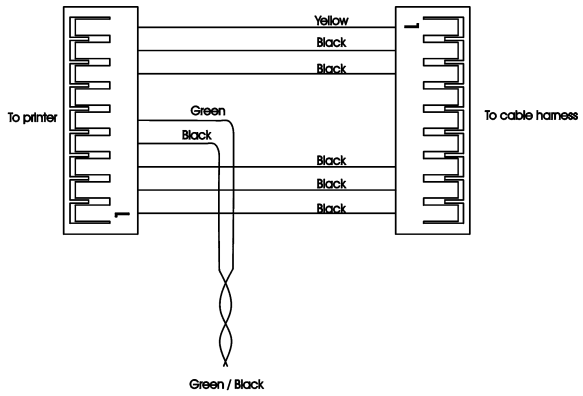
Connector CN-115



Connector CN-120



Connector CN-125

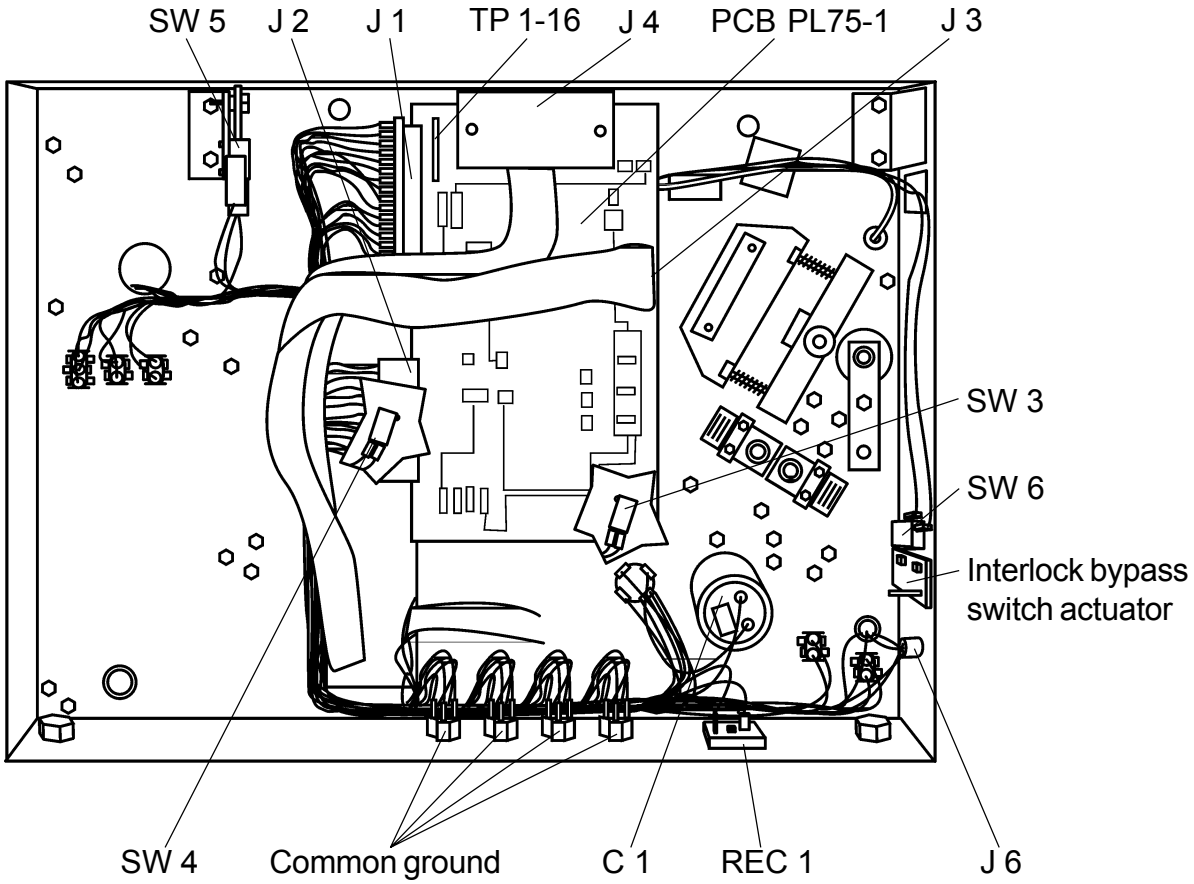


EDI 7.3 Electrical components list

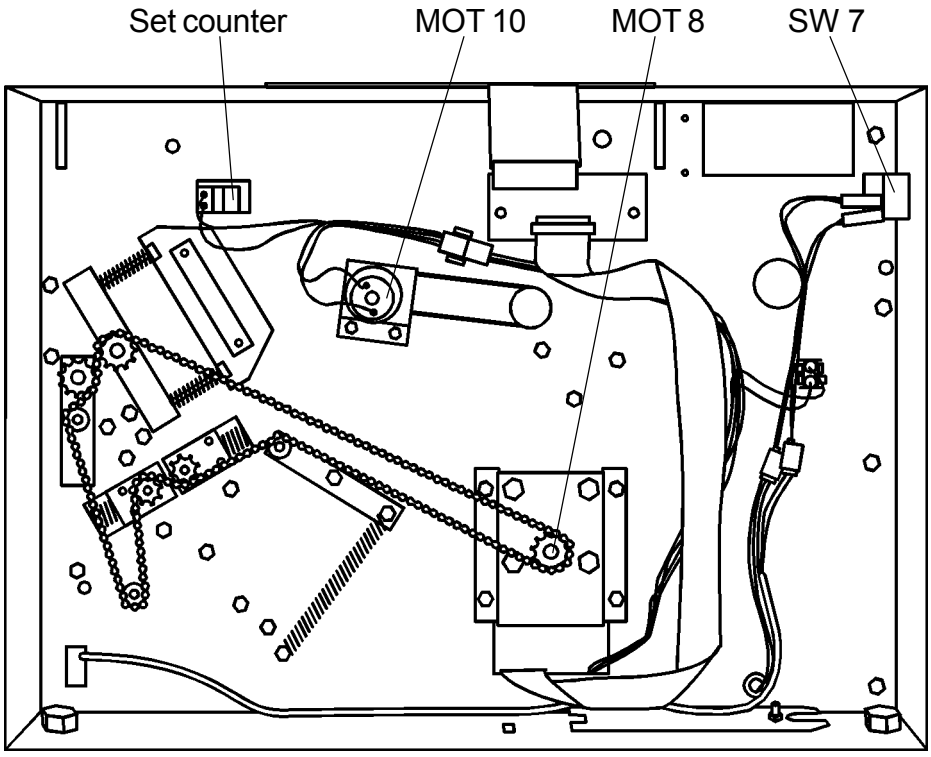
MOT 5	Stacker drive motor	PAGE 7.4.2
MOT 4	Stapled set transport motor	PAGE 7.4.3
MOT 6	Length adjustment motor	PAGE 7.4.2
MOT 10	Edge stapling stop motor	PAGE 7.4.1
MOT 7	Back jogger motor	PAGE 7.4.4
MOT 11	Edge stapling transport motor	PAGE 7.4.4
MOT 9	Infeed transport belt motor	PAGE 7.4.4
MOT 1	Stapler motor	PAGE 7.4.3
MOT 2	Fold knife motor	PAGE 7.4.3
MOT 8	Folder roller motor	PAGE 7.4.1
MOT 12	Fold stop gate motor	PAGE 7.4.2
MOT 3	Side jogger motor	PAGE 7.4.4
SOL 2	Stapled set stop gate release solenoid	PAGE 7.4.3
SOL 1	Stapled set stop gate solenoid	PAGE 7.4.3
SW 1	Stapler home position switch	PAGE 7.4.3
SW 2	Fold knife home position switch	PAGE 7.4.2
SW 3	Length adjustment maximum limit switch	PAGE 7.4.1
SW 4	Length adjustment minimum limit switch	PAGE 7.4.1
SW 5	Interlock switch	PAGE 7.4.1
SW 6	Interlock bypass switch	PAGE 7.4.1
SW 7	Main power switch	PAGE 7.4.1, 7.4.3
SEN 1	Saddle stapling sensor	PAGE 7.4.4
SEN 2	Fold stop sensor	PAGE 7.4.2
SEN 3	Edge stapling sensor	PAGE 7.4.4
SEN 4	Outfeed sensor	PAGE 7.4.2
SEN 5	Infeed sensor	PAGE 7.4.4
SEN 6	Side jogger home position sensor	PAGE 7.4.4
SEN 7	Side jogger hall sensor	PAGE 7.4.4
F 1	Main power fuse	PAGE 7.4.3
F 2	10 VAC fuse, T500 mA	PAGE 7.4.3
F 3	10 VAC fuse for staple detection, T500 mA	PAGE 7.4.3
F 4	26 VAC fuse, T6.3 A	PAGE 7.4.3
GFI	Ground fault interrupter	PAGE 7.4.3
T 1	Transformer	PAGE 7.4.3
REC 1	Rectifier	PAGE 7.4.1
FL 1	Filter	PAGE 7.4.1
C 1	Capacitor	PAGE 7.4.1
J 5	Interface receptacle	PAGE 7.4.3
J 6	Stacker receptacle	PAGE 7.4.1
PCB PL75-1	Controller Printed circuit board	PAGE 7.4.1

EDI 7.4 Electrical components location

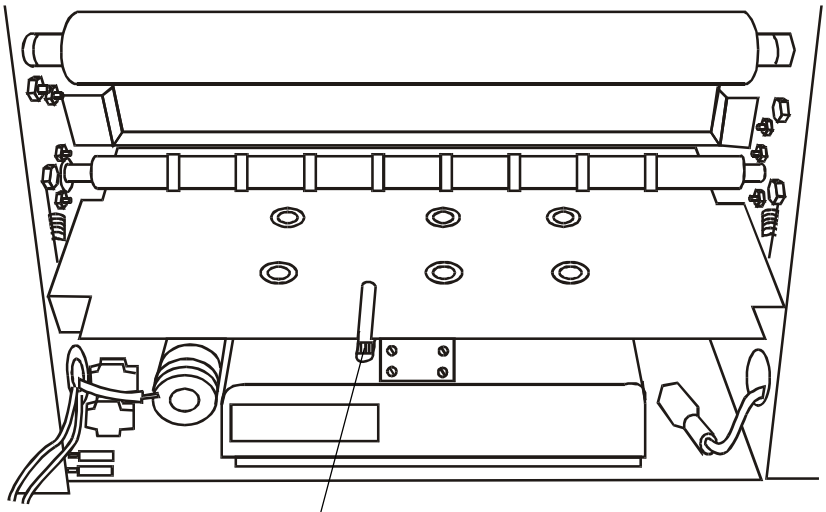
REAR VIEW



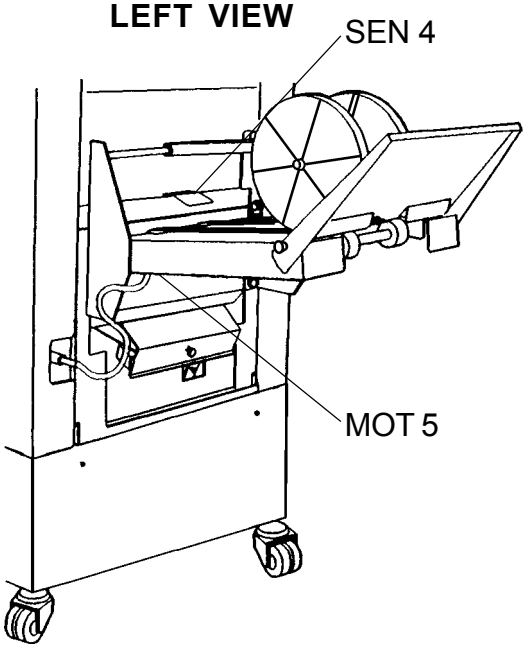
FRONT VIEW



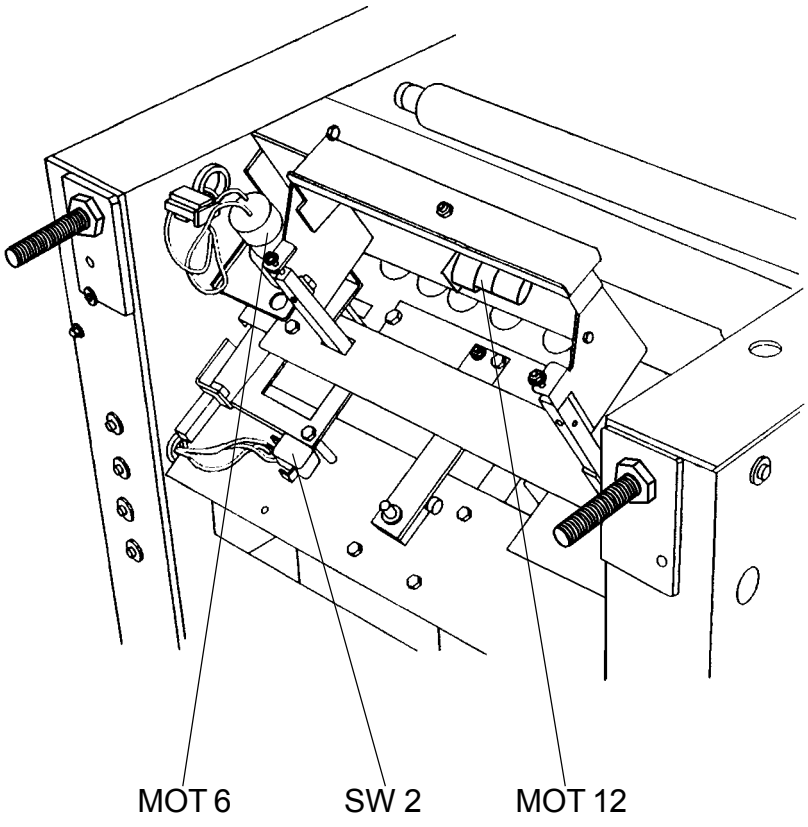
VIEW INSIDE OUTFEED COVER



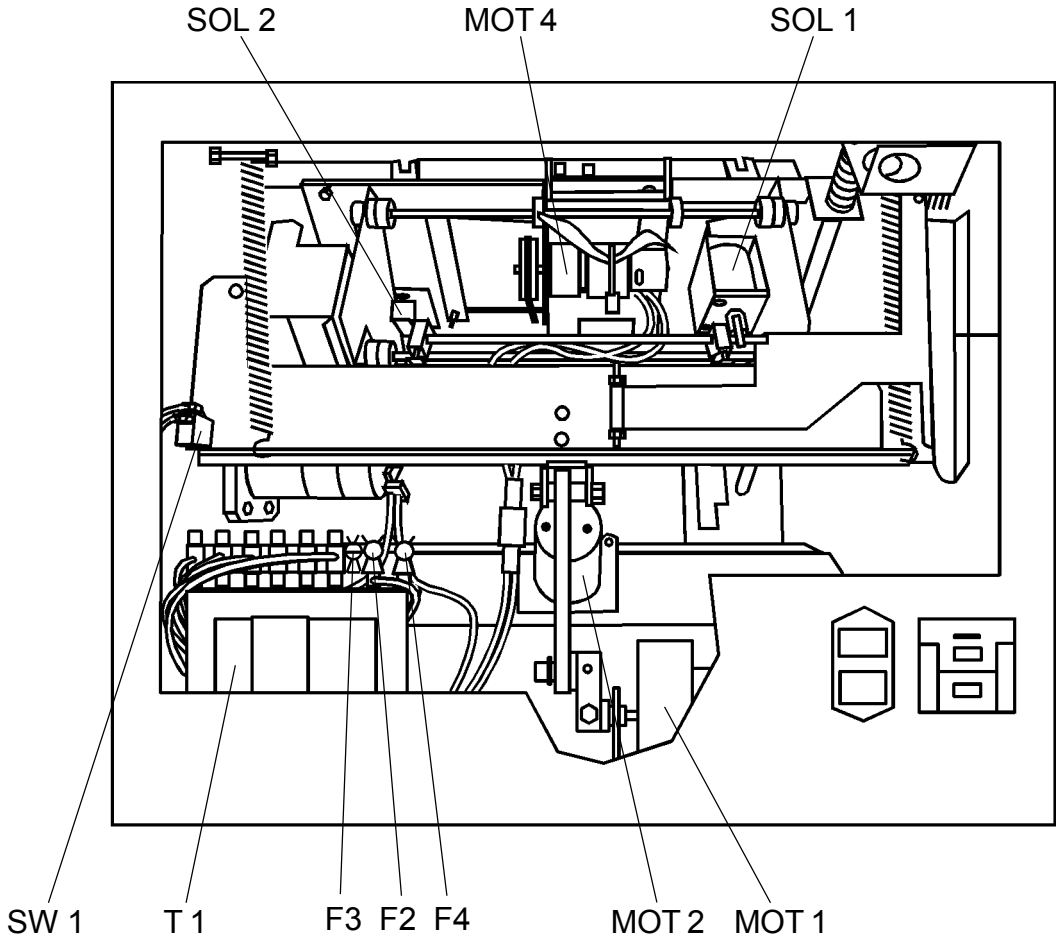
LEFT VIEW



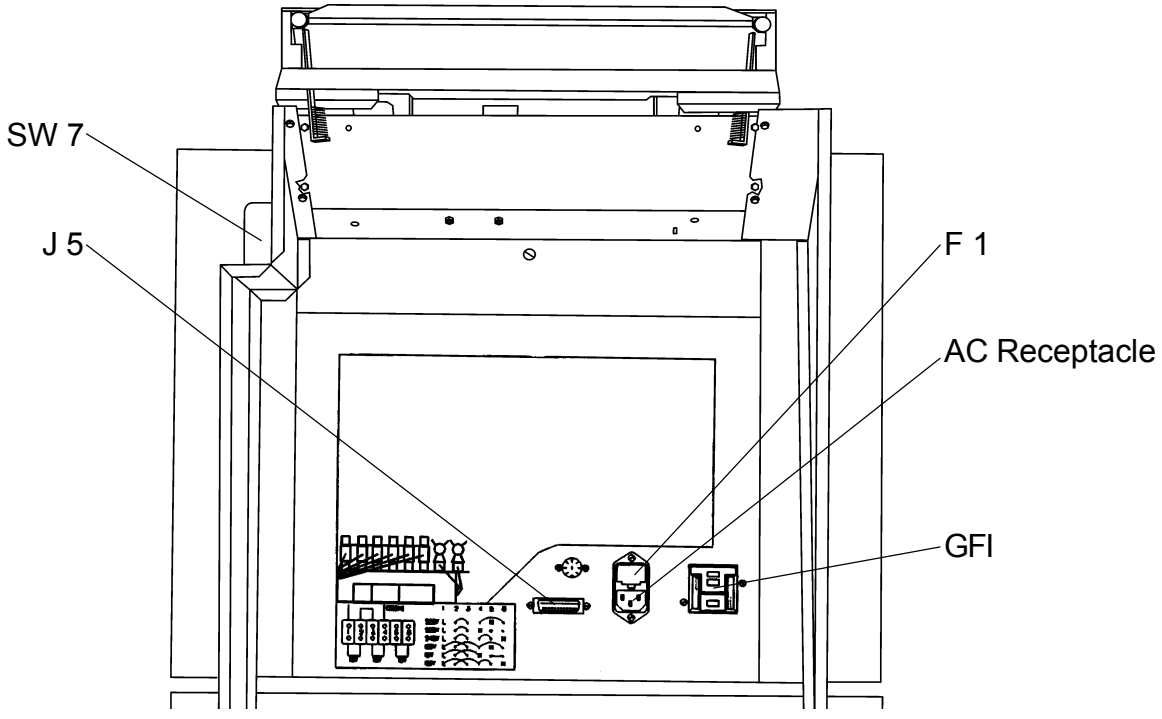
FOLD AREA SHOWN IN TIPPED POSITION



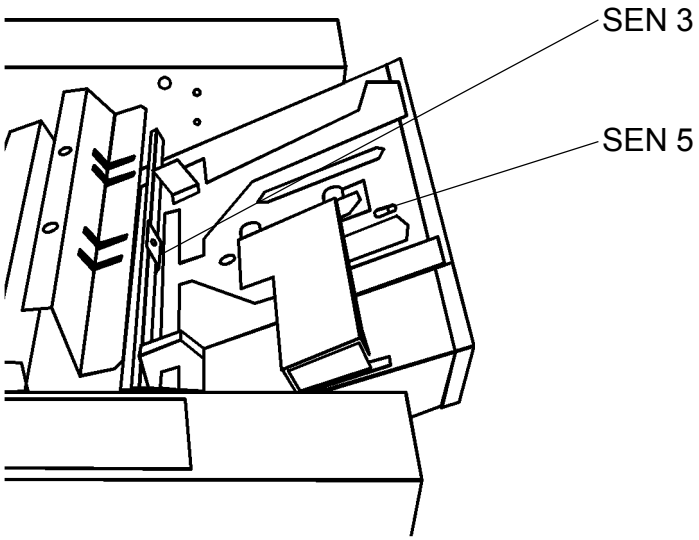
VIEW INSIDE INFEED COVER



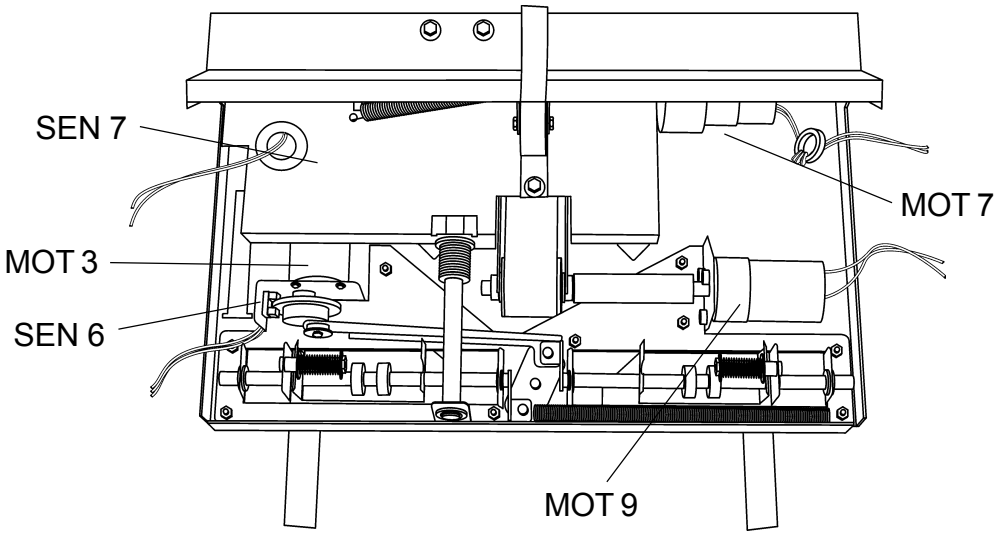
RIGHT VIEW INFEED COVER REMOVED



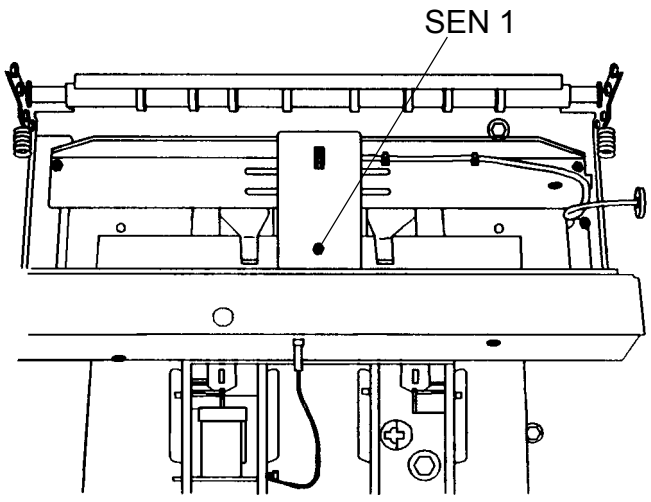
VIEW OF INFEED AREA



BOTTOM VIEW OF REMOVED INFEEDER



STAPLER AREA



EDI 7.5 Test points

PURPOSE
The purpose of the Test points (see location on page 7.4.1, TP 1-16) is to use them as the (+) connector when adjusting sensors or when checking the function of some components and there wires. Use any common ground as (-) connector.

Voltage when low: Less than 0.9 VDC
Voltage when high: Greater than 2.2 VDC

Test point	Description	Measured value after switched on
TP 1	Saddle stapling sensor SEN 1	Low inactivated
TP 2	Fold stop sensor SEN 2	High inactivated
TP 3	Home position side registration	High inactivated
TP 4	Fold knife home position switch SW 2	Low activated
TP 5	Stapler home position switch SW 1	Low activated
TP 6	Jam signal from Trimmer	High inactivated
TP 7	Edge stapling sensor SEN 3	High inactivated
TP 8	Outfeed sensor SEN 4	Low inactivated
TP 9	Infeed sensor SEN 5	High inactivated
TP 10	Trimmer knife activated	High inactivated
TP 11	Length adjustment maximum limit switch SW 3	High inactivated
TP 12	Not used	
TP 13	Length adjustment minimum limit switch SW 4	High inactivated
TP 14	Trimmer connected	High inactivated
TP 15	Rear staple detection	High inactivated
TP 16	Front staple detection	High inactivated

FIP 8.1 Self diagnostic system control (SDS)

PURPOSE

The purpose of the Self diagnostic system control (SDS) is to provide a functional check of the components of the Bookletmaker SR 85.

PROCEDURE

NOTE1: The Interlock switch or the Interlock bypass switch has to be actuated and the four DIP switches on the controller PCB has to be to the left (left when facing the PCB) and the SR 85 has to be cleared from paper sheets in order to perform the SDS.

NOTE2: If the SDS is repeated, switch off the power, wait a few seconds, switch on the power again to return the motors and solenoids to home position.

CAUTION1: Always handle the PCB and micro processor in accordance with electrostatic discharge procedures (ESD). The PCB contains components that are sensitive to ESD damage.

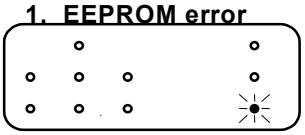
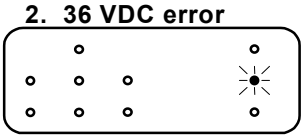
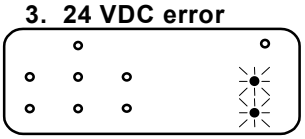
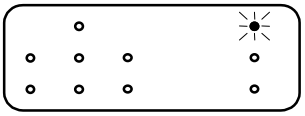
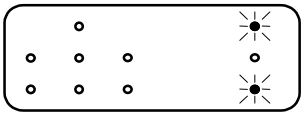
CAUTION2: Do not switch of the power during SDS. If there is a loss of power during SDS, reset the EEPROM according to PRG 6.1.1

1. Switch off the power.
2. Press and hold the Auto/Manual button. Switch on the power. Release the Auto/Manual button.
   - First the Auto LED is flashing: The SR 85 is testing the EEPROM.
   - Then the Manual LED is flashing: The SR 85 is testing the 24 voltage, the 36 voltage, motors and solenoids.
   - At last all of the LEDs are lighting on the control panel: The test is complete.
3. Press the five buttons on the control panel one at the time.
   - All of the LEDs should be switched off except the Staples LED.
4. Press the two buttons to the left on the control panel at the same time.
   - The last LED on the control panel should be switched off.

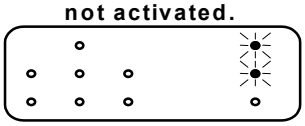
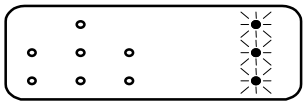
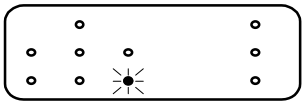
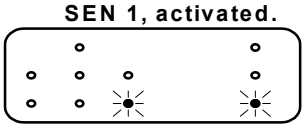
If all of the LEDs are off, the SDS is complete, no errors found.

If any faults was detected during SDS, the last six LEDs will provide a fault code pattern. Press the Auto/Manual button to display any other faults that were detected during the SDS.
Refer to SDS Fault code table and locate the lighting pattern of the LEDs.

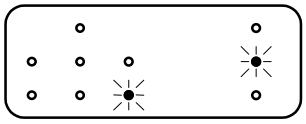
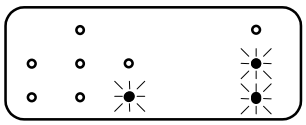
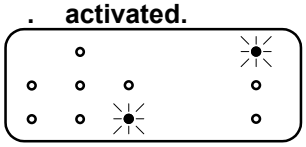
FIP 8.1 Self diagnostic system control, Fault code table

Fault code	Possible cause	Fault isolating / repair
1. EEPROM error 	EEPROM values incorrect.	Reset the EE-prom according to PRG 6.1.
	EEPROM defective.	Replace the controller PCB.
2. 36 VDC error 	Interlock switch SW 5 activated.	See fault code 5.
	Rectifier REC 1 defective.	Replace Rectifier.
	Transformer T 1 defective.	Replace Transformer.
	Capacitor C 1 defective.	Replace Capacitor.
	Wires defective.	Check the wires for an open circuit using a voltmeter. Measure from 3, 4 and 5 on connector J8 to the capacitor.
	Controller PCB defective.	Replace controller PCB.
3. 24 VDC error 	Controller PCB defective.	Replace controller PCB.
4. Interlock switch SW 5, activated. 	Top cover open or Interlock switch not activated.	Close the Top cover or pull out the Interlock bypass switch actuator.
	Top cover misadjusted.	Check/Adjust the Top cover according to REP 1.2.
	Micro switch defective.	Disconnect the wires from the switch. Check the function of the switch using a voltmeter. Check both Interlock micro switch and Interlock bypass micro switch.
	Wires defective.	Disconnect the wires from the switch. Check the wires for an open circuit using a voltmeter. Measure from 10C and 17A on connector J1 to the Interlock switch and 10C and 12A to the bypass switch.
	Controller PCB defective.	If checks above is good, replace the controller PCB.
5. Stapler home position switch SW 1, not activated. 	Stapler motor in faulty position.	Switch off the power and switch on the power again.
	Stapler home position misadjusted.	Check/Adjust the Stapler home position according to REP 3.5.
	Micro switch defective.	Disconnect the wires from the switch. Check the function of the switch using a voltmeter.
	Wires defective.	Check that the voltage between TP5 on the controller PCB and common ground is less than 0.9 VDC when the switch is activated and greater than 2.2 VDC when the switch is inactivated.
	Controller PCB defective.	If checks above is good, replace the controller PCB.

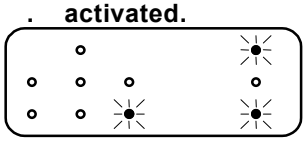
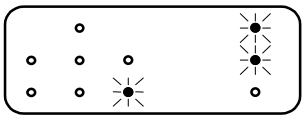
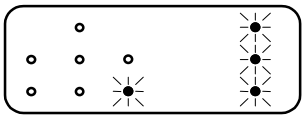
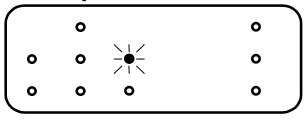
Continue FIP 8.1 Self diagnostic system control, Fault code table

Fault code	Possible cause	Fault isolating / repair
6. Fold knife motor home position switch SW 2, not activated. 	Fold knife motor in faulty position.	Switch off the power and switch on the power again.
	Fold knife home position misadjusted.	Check/Adjust the Fold knife home position according to REP 4.4.
	Micro switch defective.	Disconnect the wires from the switch. Check the function of the switch using a voltmeter.
	Wires defective.	Check that the voltage between TP4 on the controller PCB and common ground is less than 0.9 VDC when the switch is activated and greater than 2.2 VDC when the switch is inactivated.
	Controller PCB defective.	If checks above is good, replace the controller PCB.
7. Side jogger home position sensor SEN 6, faulty. 	Sensor defective.	Check that the voltage between TP3 on the controller PCB and common ground is less than 0.9 VDC with the sensor blocked and greater than 2.2 VDC with the sensor unblocked.
	Wires defective.	Disconnect the sensor connector. Check the wires for an open circuit using a voltmeter. Measure from 30A and 30C on connector J1 to the sensor connector. Measure from 30A and 4C on connector J1 to the sensor connector.
	Controller PCB defective.	Replace the controller PCB.
8. Edge stapling sensor SEN 3, activated. 	Paper is blocking the sensor.	Remove the paper.
	Sensor defective.	Check that the voltage between TP7 on the controller PCB and common ground is less than 0.9 VDC with the sensor blocked and greater than 2.2 VDC with the sensor unblocked.
	Wires defective.	Disconnect the sensor connector. Check the wires for an open circuit using a voltmeter. Measure from 26C and 26A on connector J1. Meassure from 2C and 8A on connector J1.
	Controller PCB defective.	If checks above is good, replace the controller PCB.
9. Saddle stapling sensor SEN 1, activated. 	Paper is blocking the sensor.	Remove the paper.
	Sensor misadjusted.	Check/Adjust the Saddle stapling sensor according to REP 3.7.
	Sensor defective.	Check that the voltage between TP1 on the controller PCB and common ground is greater than 2.2 VDC with the sensor blocked and less than 0.9 VDC with the sensor unblocked.
	Wires defective.	Disconnect the sensor connector. Check the wires for an open circuit using a voltmeter. Measure from 32C, 32A on connector J1. Measure from 1C and 23A on connector J1.
	Controller PCB defective.	If checks above is good, replace the controller PCB.

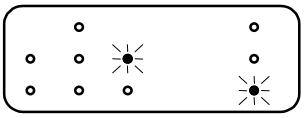
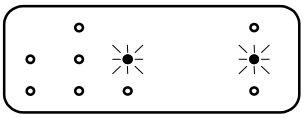
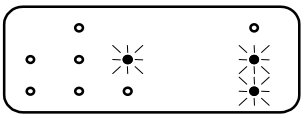
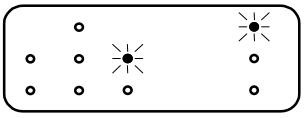
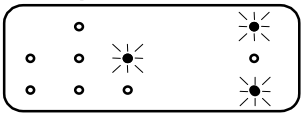
Continue FIP 8.1 Self diagnostic system control, Fault code table

Fault code	Possible cause	Fault isolating / repair
10 Outfeed sensor SEN 4, activated. 	Paper is blocking the sensor.	Remove the paper.
	Sensor misadjusted.	Check/Adjust the Outfeed sensor according to REP 4.5.
	Sensor defective.	Check that the voltage between TP8 on the controller PCB and common ground is greater than 2.2 VDC with the sensor blocked and less than 0.9 VDC with the sensor unblocked.
	Wires defective.	Disconnect the sensor connector. Check the wires for an open circuit using a voltmeter. Measure on connector J1 between 25A and 25C. And between 21A and 3C.
	Controller PCB defective.	If checks above is good, replace the controller PCB.
11 Fold stop sensor SEN 2, activated. 	Paper is blocking the sensor.	Remove the paper.
	Sensor misadjusted.	Reposition the sensor to obtain the voltages below.
	Sensor defective.	Check that the voltage between TP2 on the controller PCB and common ground is greater than 2.2 VDC with the sensor blocked and less than 0.9 VDC with the sensor unblocked.
	Wires defective.	Disconnect the sensor connector. Check the wires for an open circuit using a voltmeter. Measure on connector J1 between 31A and 31C. And between 31A and 4A.
	Controller PCB defective.	If checks above is good, replace the controller PCB.
12 Rear staple detection, activated. 	Stapler head short circuit to chassis ground	Find what causes the short circuit and perform appropriate action.
	Wires defective.	Check that the voltage between TP15 on the controller PCB and common ground is less than 0.9 VDC when the stapler head is in contact with the anvil and greater than 2.2 VDC when not in contact. Use a screw driver to connect the stapler head with the anvil.
	Controller PCB defective.	If check above is good, replace the controller PCB.

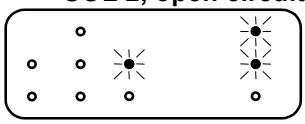
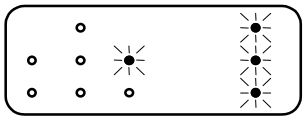
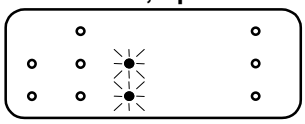
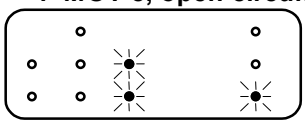
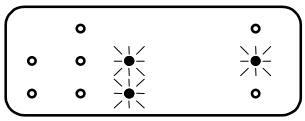
Continue FIP 8.1 Self diagnostic system control, Fault code table

Fault code	Possible cause	Fault isolating / repair
13 Front staple detection, activated. 	Stapler head short circuit to chassis ground.	Find what causes the short circuit and perform appropriate action.
	Wires defective.	Check that the voltage between TP16 on the controller PCB and common ground is less than 0.9 VDC when the stapler head is in contact with the anvil and greater than 2.2 VDC when not in contact. Use a screw driver to connect the stapler head with the anvil.
	Controller PCB defective.	If check above is good, replace the controller PCB.
14 Trimmer not connected. 	Model 75 intact.	If a Trimmer is not connected.
	Cabels not connected.	Connect the Interface cable and the Power cord from the Trimmer to the Model 75.
	Wires defective.	Check the wires for an open circuit using a voltmeter. Measure from 6 on connector J9 to pin 8 on the DIN receptacle. Measure from 13 on connector J9 to pin 5 on the DIN receptacle.
	Trimmer faulty.	See technical documentation for Trimmer.
	Controller PCB defective.	Replace the controller PCB.
15 Infeed sensor SEN 5, activated. 	Paper is blocking the sensor.	Remove the paper.
	Sensor misadjusted.	Reposition the sensor to obtain the voltages below.
	Sensor defective.	Check that the voltage between TP9 on the controller PCB and common ground is greater than 2.2 VDC with the sensor blocked and less than 0.9 VDC with the sensor unblocked.
	Wires defective.	Disconnect the sensor connector. Check the wires for an open circuit using a voltmeter. Measure on connector J1 between 24A and 24C. And between 24A and 2A.
	Controller PCB defective.	If checks above is good, replace the controller PCB.
16 Infeed transport belt motor MOT 9, open circuit. 	Motor defective.	Disconnect the motor connector. Check the motor for an open circuit using a voltmeter.
	Wires defective.	Disconnect the motor connector. Check the wires for an open circuit using a voltmeter. Measure from 14 and 7 on connector J8 to the motor connector.
	Controller PCB defective.	Replace the controller PCB.

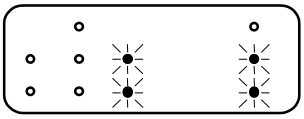
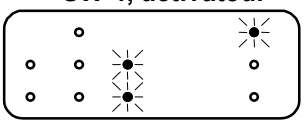
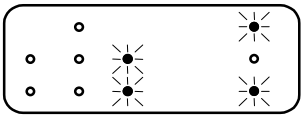
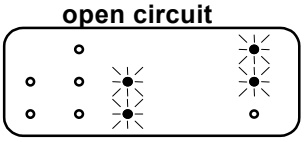
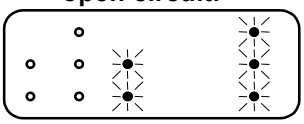
Continue FIP 8.1 Self diagnostic system control, Fault code table

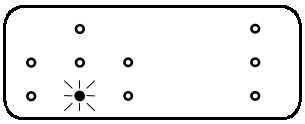
Fault code	Possible cause	Fault isolating / repair
17 Back jogger motor . MOT 7, jogger up, open circuit. 	Motor defective.	If both fault code 17 and 18 was detected. Disconnect the motor connector. Check the motor for an open circuit using a voltmeter.
	Wires defective.	If both fault code 17 and 18 was detected. Disconnect the motor connector. Check the wires for an open circuit using a voltmeter. Measure from 10 and 11 on connector J8 to the motor connector.
	Controller PCB defective.	If only one of fault code 17 and 18 was detected. Replace the controller PCB.
18 Fold stop gate motor . MOT 12, open circuit. 	Motor defective.	Disconnect the motor connector. Check the motor for an open circuit using a voltmeter.
	Wires defective.	Disconnect the motor connector. Check the wires for an open circuit using a voltmeter. Measure from 8 and 1 on connector J9 to the motor connector.
	Controller PCB defective.	Replace the controller PCB.
19 Stapler motor MOT 1, . open circuit. 	Motor defective.	Disconnect the motor connector. Check the motor for an open circuit using a voltmeter.
	Wires defective.	Disconnect the motor connector. Check the wires for an open circuit using a voltmeter. Measure from 9 and 2 on connector J2 to the motor connector.
	Controller PCB defective.	Replace the controller PCB.
20 Stapled set transport . motor MOT 4, Open circuit 	Motor defective.	Disconnect the motor connector. Check the motor for an open circuit using a voltmeter.
	Wires defective.	Disconnect the motor connector. Check the wires for an open circuit using a voltmeter. Measure from 7 and 14 on connector J9 to the motor connector.
	Controller PCB defective.	Replace the controller PCB.
21 Stapled set transport . solenoid SOL 1, open circuit. 	Solenoid defective.	Disconnect the solenoid connector. Check the solenoid for an open circuit using a voltmeter.
	Wires defective.	Disconnect the solenoid connector. Check the wires for an open circuit using a voltmeter. Measure from 5 on connector J2 to 5 on connector J9.
	Controller PCB defective.	Replace the controller PCB.

Continue FIP 8.1 Self diagnostic system control, Fault code table

Fault code	Possible cause	Fault isolating / repair
22 Staple stop gate release solenoid SOL 2, open circuit. 	Solenoid defective.	Disconnect the solenoid connector. Check the solenoid for an open circuit using a voltmeter.
	Wires defective.	Disconnect the solenoid connector. Check the wires for an open circuit using a voltmeter. Measure from 4 and 11 on connector J2 to the solenoid connector.
	Controller PCB defective.	Replace the controller PCB.
23 Side jogger motor MOT3, open circuit. 	Motor defective.	Disconnect the motor connector. Check the motor for an open circuit using a voltmeter.
	Wires defective.	Disconnect the motor connector. Check the wires for an open circuit using a voltmeter. Measure from 11 and 12 on connector J9 to the motor connector.
	Controller PCB defective.	Replace the controller PCB.
24 Fold knife motor MOT 2, open circuit. 	Motor defective.	Disconnect the motor connector. Check the motor for an open circuit using a voltmeter.
	Wires defective.	Disconnect the motor connector. Check the wires for an open circuit using a voltmeter. Measure from 8 and 1 on connector J2 to the motor connector.
	Controller PCB defective.	Replace the controller PCB.
25 Folder roller motor MOT 8, open circuit. 	Motor defective.	Disconnect the motor connector. Check the motor for an open circuit using a voltmeter.
	Wires defective.	Disconnect the motor connector. Check the wires for an open circuit using a voltmeter. Measure from 11 and 14 on connector J2 to the motor connector.
	Controller PCB defective.	Replace the controller PCB.
26 Stacker motor MOT 5, open circuit. 	Motor defective.	Disconnect the motor connector. Check the motor for an open circuit using a voltmeter.
	Wires defective.	Disconnect the motor connector. Check the wires for an open circuit using a voltmeter. Measure from 13 and 6 on connector J9 to the motor connector.
	Controller PCB defective.	Replace the controller PCB.
	NOTE:	When you are running a SDS with a Trimmer. The Bookletmaker is only running SDS on itself. So the machine will not feel anything behind the Bookletmaker, and will think that the Beltstacker is not connected.

Continue FIP 8.1 Self diagnostic system control, Fault code table

Fault code	Possible cause	Fault isolating / repair
27 Length adjustment . maximum limit switch SW 3, activated. 	Adjusted to maximum paper size.	Adjust to a smaller paper size. It it is allowed to run the Model 75 adjusted to the largest paper size
	Micro switch defective.	Disconnect the wires from the switch. Check the function of the switch using a voltmeter.
	Wires defective.	Check that the voltage between TP13 on the controller PCB and common ground is less than 0.9 VDC when the switch is activated and greater than 2.2 VDC when the switch is inactivated.
	Controller PCB defective.	If checks above is good, replace the controller PCB.
28 Length adjustment . minimum limit switch SW 4, activated. 	Adjusted to minimum paper size.	Adjust to a larger paper size. It it is allowed to run the Model 75 adjusted to the smallest paper size
	Micro switch defective.	Disconnect the wires from the switch. Check the function of the switch using a voltmeter.
	Wires defective.	Check that the voltage between TP11 on the controller PCB and common ground is less than 0.9 VDC when the switch is activated and greater than 2.2 VDC when the switch is inactivated.
	Controller PCB defective.	If checks above is good, replace the controller PCB.
29 Edge staple stop motor . MOT 10, open circuit. 	Motor defective.	Disconnect the motor connector. Check the motor for an open circuit using a voltmeter.
	Wires defective.	Disconnect the motor connector. Check the wires for an open circuit using a voltmeter. Measure from 8 and 9 on connector J8 to the motor connector.
	Controller PCB defective.	Replace the controller PCB.
30 Edge stapling transport . motor MOT 11, open circuit 	Motor defective.	Disconnect the motor connector. Check the motor for an open circuit using a voltmeter.
	Wires defective.	Disconnect the motor connector. Check the wires for an open circuit using a voltmeter. Measure from 12 and 13 on connector J8 to the motor connector.
	Controller PCB defective.	Replace the controller PCB.
31 Length adjustment . motor MOT 6, open circuit. 	Motor defective.	Disconnect the motor connector. Check the motor for an open circuit using a voltmeter.
	Wires defective.	Disconnect the motor connector. Check the wires for an open circuit using a voltmeter. Measure from 1 and 2 on connector J8 to the motor connector.
	Controller PCB defective.	Replace the controller PCB.

Fault code	Possible cause	Fault isolating / repair
32. Side jogger, hall sensor SEN7, faulty. 	Sensor defective.	Check that the voltage between 15C and 19A on connector J1. Is greater than 2.2 VDC with the sensor blocked and less than 0.9 VDC with the sensor unblocked.
	Wires defective.	Disconnect the sensor connector. Check the wires for an open circuit using a voltmeter. Measure on connector J1 between 15C and 19A. And between 19A and 1A.
	Controller PCB defective.	If check above is good, replace the controller PCB.

Note: All INSTRUCTIONS are referring to the Bookletmaker SR 85 Service Manual.
The REFERENCE column is referring to the Spare parts list of Model SR85.

CHECK POINT	INSTRUCTION	REFERENCE	125000	250000
All machine, Paper paths etc.	Use a vacuum cleaner, towels and brushes to clean the machine from paper dust. Use an alcohol to clean from ink.		Clean	Clean
Stapler assy. drive bars (2 pcs.)	Apply grease. Check according to REP 3.4.		Check	Grease/ Adjust
Fold knife drive bars (2 pcs.)	Apply grease between vertical rods and Fold knife plate.	Page 1.13 Item 10	Check	Grease
Fold stop bars (2 pcs.)	On square shaped bar holding the fold stop assy, apply silicon grease on the bottom side of the bars (between the bar and the ty-wrap). Check ty-wraps for wear. If worn, replace.	Page 1.13	Check	Grease/ Check
Stapler motor crank arm (2 pcs.)	Apply silicon grease between Crank journal and Rod.	Page 1.9 Item 14	Check	Grease
Fold knife motor crank arm (2 pcs.)	Apply silicon grease between Crank elbow and Rod.	Page 1.13 Item 12	Check	Grease
O-ring for eject feed wheel	Check for wear. If worn, replace. Always replace at 250 000.	Page 1.9 Item 4	Check/Clean	Replace
O-ring for edge staple motor	Check for wear. If worn, replace.	Page 1.5 Item 3	Check	Check
Chain	Use chain oil. Check for wear, if worn/stretched replace. Always replace every 100 00 00.	Page 1.5 Item 20	Oil	Oil
Chain idler rollers (3 pcs.)	Apply grease between idler roller and pin. Check for wear. If worn, replace.	Page 1.5 Item 12	Check/Grease	Replace
Threaded adjustment rod	Use grease at 500 000.	Page 1.9 Item 10		(Grease)

CHECK POINT	INSTRUCTION	REFERENCE	125000	250000
Lower fold roller holder bracket (2 pcs.)	Apply grease between the spacer bracket and the side frames. Check for wear, if worn replace.	Page 1.5 Item 18	Check/Grease	Grease
Upper fold roller bearings (2 pcs.)	Under the top cover, use oil between bearings and shaft. Apply silicon grease between bearing and side frame.	Page 1.5 Item 10	Oil	Oil/ Grease
Upper fold rollers	Use a rubber reactivator alcohol fluid.	Page 1.13 Item 1	Clean	Clean
Stapler heads (2 pcs.)	Check stapler heads by stapling 20 sheets. If poor staple result, replace stapler head. The poor staple result is due to worn driver points. Apply silicon grease on plastic guide posts and between top of drive post and stapler drive bracket. Use thin oil on stapler driver (without staining the paper).		Grease/Check	Replace
Stapler retraction swing arm (2 pcs.)	Apply silicon grease on bearing points. Check adjustment according to REP 3.6 when replacing stapler heads.		Grease	Grease/ Adjust
Staple stop gate release arm solenoid. SOL 2	Apply silicon grease on both friction areas. Check that the stop gate latches and releases correctly.	Page 1.9 Item 3		Grease/ Check

CHECK POINT	INSTRUCTION	REFERENCE	125000	250000
Infeed module removed				
Infeed transport belt	Use a rubber reactivator alcohol fluid. Check for wear. If worn, replace, check bushings, oil.	Page 1.11 Item 6	Clean	Check
With the infeed module installed				
Side guide parallelism	Check that the side guides are parallel according to reference holes in the lower paper path. REP 2.3 for adjustment.		Check/Adjust	Check/ Adjust
Booklet quality	Check the booklet quality according to REP 5.1 - 5.2 and REP 5.4 - 5.7		Check/Adjust	Check/ Adjust

CONTROL PANEL

PL75-1J PCB

J4 — J1 — J2 — J8 — J9 — J3

FOLD KNIFE MOTOR (M2)
STAPLER MOTOR (M1)
COUNTER
SOL 2 — Stapled set stop gate release solenoid
FOLD ROLLER MOTOR (M8)
SOL 1 — Stapled set stop gate solenoid
LENGTH ADJUSTMENT MOTOR (M6)
Motor GND
INFEED TRANSPORT BELT MOTOR (M9)
EDGE STAPLING STOP MOTOR (M10)
BACK JOGGER MOTOR (M7)
EDGE STAPLING TRANSPORT MOTOR (M11)
FOLD STOP GATE MOTOR (M12)
STAPLED SET TRANSPORT MOTOR (M4)
B — Molex Minifit 2-pol (To Sensorcablage)
OPTOCOUPLERS

B — Molex Minifit 2-pol (From Motorcablage)
SEN 6 — HOME POSITION M3 SENSOR
AMP CT
SEN 7 — HALL SENSOR M3
SIDE JOGGER MOTOR (M3)
SEN 1, SADDLE STAPLING SENSOR (LED)
SEN 1, SADDLE STAPLING SENSOR (PHT)
SEN 4, OUTFEED SENSOR (LED)
SEN 4, OUTFEED SENSOR (PHT)
SEN 3, EDGE STAPLING SENSOR
SEN 2, FOLD STOP SENSOR
SEN 5, INFEED SENSOR
STAPLE DETECTION

CONNECT TO STACKER
DIN 8-pol
Jam from trimmer
Trimmer knife activated
Trimmer connected
Gnd
Start signal
Resistor 2.2k
TRIMMER OPTIONAL
M5 STACKER MOTOR

SW 3, LENGTH ADJUSTMENT MAXIMUM LIMIT SWITCH
SW 4, LENGTH ADJUSTMENT MINIMUM LIMIT SWITCH
SW 1, STAPLER HOME POSITION SWITCH
SW 2, FOLD KNIFE HOME POSITION SWITCH
SW 5, INTERLOCK SWITCH
SW 6, SERVICESWITCH

SYMBOL TABLE
SIGNAL DIRECTION
ACTIVE HIGH
ACTIVE LOW

Power Receptacle With Line Filter — F1 3,15A/230V 6,3A/115V
GFI
SW 7 Main power switch
Mains outlet for trimmer
115V / 115V / 10V
F3 500mA — 10 V
F2 500mA — 10 V
F4 6.3A — 26.2V
10 nF
+36V
Motor GND

Det.nr	(Ant.)	Benämning	Material	Mod.nr Ämne Dimension	Anm.
Konstr. JO	Ritad JO	Kontr.	Godk.	Stand. PS 1	Skala / Format A3	Rev.dat. 010216
PLOCKMATIC International AB	WIRING DIAGRAM RICOH SR85				Art.nr. 75649	Dat. 000817
					Ritn.nr 755020F3	