Zip21

Operation and Maintenance Manual

Version 9 Software Serial Number 1503233 onwards - 151006

CASLON
L·I·M·I·T·E·D
Caslon House, Lyon Way, Hatfield Road, St. Albans, Herts, AL4 0LB / UK
Telephone: +44 (0)1727-852211 Fax: +44 (0)1727-855772
Email: info@caslon.co.uk Website: www.caslon.co.uk

Contents

Specifications

Maximum Paper Size:	320mm x any length	15.5" x any length
Minimum Paper Size:	145mm x 145mm	5.7" x 5.7"
Maximum Paper thickness:	350gsm (0.5mm)	115 lb. Cover
Cutting Speed:	160 finished cards per minute. (6+ sheets run 21-up with a scissor cut between cards)	
Cross Cut Method:	Programmable guillotine	
Maximum Cross Cuts per Sheet:	99	
Minimum Size of Cross Cut Gutter:	2mm	0.080"
Recommended Bottom Trim Off:	4mm – 10mm	0.160" - 0.3937"
Centre Slit Gutter:	6mm	0.275"
Inline Cut Method:	Rotary, spring loaded slitting knives	
Maximum Paper Capacity:	~ 50mm	~ 1.97"
Feeding Method:	Friction, top feed	
Delivery Method:	Adjustable receiving tray	
Physical Size: (including feed tray)	870mm long x 500mm wide x 330mm high	34.3" long x 19.7" wide x 13" high
Shipping Size:	790mm long x 610mm wide x 570mm high	31.1" long x 24" wide x 22.44" high
Net Weight:	63 kilos	138 lbs
Shipping Weight:	78 kilos	172 lbs.
Power:	AC 110V/220V, 50-60 Hz	

Auxiliary Parts supplied with machine: (packed inside waste paper box)	Instruction Manual Power Cord Delivery Tray Dividers Feed Tray Extension Hex T type 2.5mm wrench Hex T type 2mm wrench Screw Driver Vernier Callipers Card width adjusting tool 2 x Card width adjusting tool - long

Safety Information

Read and understand all instructions in this manual before attempting installation, operation or general maintenance of the Zip21.

Use only a grounded electrical outlet when connecting the Zip21 to a power source. If you are unsure, check with a qualified electrician – see “Important information before you start” below.

Observe all warnings and instructions marked on the Zip21.

Unplug the Zip21 from wall outlets before cleaning or maintenance.

Do not install or operate the Zip21 near water or whilst you are wet.

Make sure the Zip21 is installed on a secure and stable surface.

Make sure the power cord does not obstruct walkways near the Zip21.

Keep long hair and jewellery clear whilst operating the Zip21.

Never operate the Zip21 with any guarding removed.

Always disconnect the power to the Zip21 whilst not in use.

If you are in any doubt about the operation of the Zip21, please call your local service agent.

Important Information before you start

The Zip21 is a microprocessor-controlled machine. As such, the Zip21 must be connected to a dedicated, clean power supply. The Zip21 may be unable to perform correctly and consistently if it is connected to a power supply with other equipment.

A power surge protector should be used with the Zip21 to protect the electronics. Electronics that are damaged due to power surges are not covered under the standard warranty.

The Zip21 can operate on 230 or 115 volts AC. There is a voltage selector switch located under the out feed guard. You will need to remove the Delivery Tray Support first.

The switch is clearly marked 115 and 230. The Zip21 is sold in Europe as a 230V machine with the correct switch position and power cord provided. If the user wishes to change the Zip21 to operate on 110V, the user is responsible to assure that the switch is properly set and the correct power cord is used.

The user is also solely responsible to assure that the Zip21 is not connected to the wrong voltage. Damage caused by incorrect voltage hook-up is not covered under the standard warranty.

We recommend that the Zip21 box and packing materials be kept. While service parts are available from your dealer and can typically be easily replaced in the field, it may be necessary to return the Zip21 to the factory for complex service. The Zip21 box and packing material have been designed to protect the machine from normal handling during transportation.

Product Recycling and Disposal

European Union - Disposal Information for Commercial Users

Application of this symbol on your equipment is confirmation that you must dispose of this equipment in compliance with agreed national Procedures.

In accordance with European legislation end of life electrical and electronic equipment subject to disposal must be managed within agreed procedures.

Prior to disposal please contact your local dealer or Xerox representative for end of life take back information.

European Union - Disposal Information for Domestic Users

Application of this symbol on your equipment is confirmation that you should not dispose of the equipment in the normal household waste stream.

In accordance with European legislation, end of life electrical and electronic equipment subject to disposal must be segregated from household waste.

Private households within EU Member States may return used electrical and electronic equipment to designated collection facilities free of charge. Please contact your local disposal authority for information.

In some Member States when you purchase new equipment your local retailer may be required to take back your old equipment free of charge. Please ask your retailer for information.

Countries not within the European Union

Please contact your local waste authorities and request disposal information.

General Operation

Make sure that the Waste Collection Box, Delivery Dividers, Feed Tray and all guards are properly installed on the ZIP21 before operation.

The top guard MUST fit properly on the two tie bars or the safety switch will not be activated.

The main power switch, located on the delivery end/non-operator side of the machine, is used to turn the ZIP21 "ON". Once power has been turned on, the ZIP21 will go through a self-test sequence.

At the end of this self-test, the ZIP21 will be ready to operate. The last set of program parameters that were programmed into the ZIP21 will automatically be recovered from memory. The display screen will read, "STOP".

Pressing the "START" button will activate the Zip21 and the machine will start feeding paper. When the machine has finished feeding all of the stock and the feed tray is empty, it will give an audible warning to inform the operator that the machine has finished. Holding the “Reset” switch for 5 seconds will clear this warning.

Pressing the "STOP" button during a run will activate software that allows the current sheet to be completed and cleared from the machine. Once the sheet has finished the machine will stop feeding and remain in the idle position.

Pressing the “EMERGENCY STOP” button will deactivate the operation of the machine even if a sheet is being processed through the machine. To restart the operation of the ZIP21, either with a new sheet of paper or to finish processing a sheet in the machine, press the "START" button. If a sheet is in the machine, it will be cleared out without any more cutting operations.

If an error occurs, the ZIP21 will sound a warning and stop the machine. To deactivate the warning sound, press the "RESET" button. An error message should be displayed on the control display. Note the error message and refer to the “Errors” section. To clear the error, press and hold down the "RESET" a second time for 5 seconds and the error message will be cleared. The ZIP21 will not operate until the error message has been cleared.

Double Detector Adjustment

The Zip21 is fitted with a 2 sheet detector that can be adjusted for different thicknesses of stock. To set the detector correctly, follow the procedure listed below;

Lift the top cover and adjust the knob towards the - minus sign until the Double Detector Adjustment light comes on.

Rotate the knob towards the + plus sign until the light goes out and replace the top cover

Press the Start button and feed a single sheet into the machine. The Doubles light should come on and the machine indicates a double feed.

Lift the top cover, rotate the knob towards the + plus sign until the light goes out again and replace the top cover.

Press the RESET switch whilst pulling the sheet from the feeder. This will feed the sheet back out of the machine.

The Double Detector is now set.

Feeder Section

The ZIP21 uses a friction feeder that feeds from the top. As such, sheets should be slightly shingled before being placed in the feeder with the top sheet forward. The lead edge of the stack in the feeder should be pushed against the stop plate, under the 3 feed wheels.

The Zip21 feeder has 3 sprung loaded arms that the stock sits on. These keep the stock in contact with the feed wheels. A central pressure pad ensures that only 1 sheet is fed at a time. The spring pressure on the arms can be adjusted on the side guides. Moving the locator towards the machine increases the spring pressure.

The feeder has a sensor fitted to the centre spring plate that detects if there is stock in the machine. If the feeder is empty the machine will signal an error.

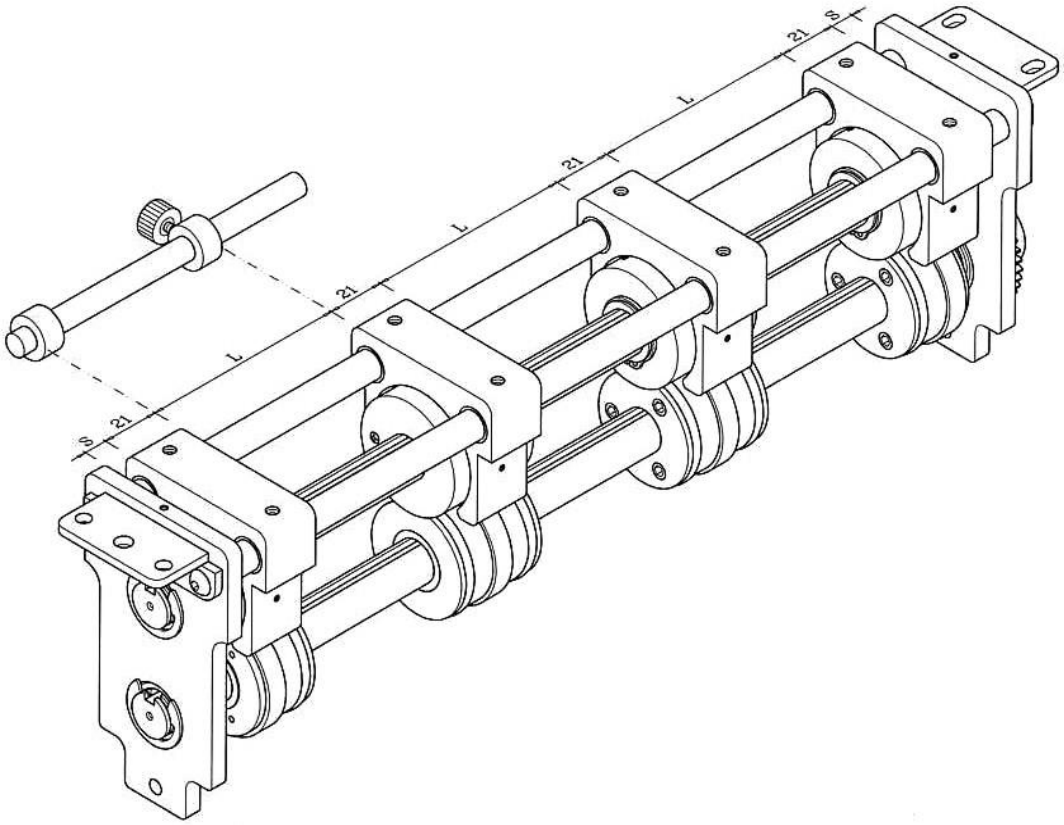
Important:
The sensor at the front of the Paper Feed Tray may cause an error if it detects excess light or direct sunshine. Keep machine out of direct light.

Important:
The feed wheels must be cleaned from time to time to remove dirt and any glazing.

To adjust for different widths of paper use the Paper Width Position Thumb Wheel situated on the non-operator side of the feeder.

To adjust the position of the paper in the feeder use the Left / Right Adjustment Dial situated on the operator side of the feeder.

Rotary Slitting / Scoring Section



The ZIP21 uses slitting and/or scoring blades mounted in a removable cassette to slit the paper as it passes through the machine.

Important: Before removing or installing a blade cassette, turn the main power switch to the "OFF" position.

Remove the top cover from the machine. Remove the four Philips head-mounting screws that secure the blade cassette, and then lift the cassette out of the machine. To install a new cassette, reverse the process making sure the gear on the cassette matches the drive gear on the machine. Always use all four Philips head screws when installing the blade cassette.

To adjust the cutting blade width, remove the top guard and the cassette guard and refer to the drawing above. Set the width of the adjusting tool with the Vernier Callipers supplied. The width "L" is equal to the width of the card less 15mm. For example, a card of 85mm wide would have the adjusting tool set to 85-15=70mm. The total distance between the side frames is 340mm so the distance "S" can be calculated as S=340-(3xL)-(2x21)-(2x19)÷2. In our example above this would be "S" = 340-(3x70)-(2x21)-(2x19)÷2 = 25mm (There is a quick reference settings guide on page 8)

Loosen the 2 screws holding each assembly and place the adjusting tool between the holders as shown above. Slide the assemblies until they touch the adjusting tool and lock the screws. Do not over tighten the screws.

Important: Always work around the centre of the machine when setting the cassette assemblies. Details of calculating this are shown above.

To correctly align the paper to the slitting/scoring blades, the infeed platform has a Left / Right Adjustment Dial. This adjustment is simple and easy to use. A reference scale and indicator are located on the feed tray to simplify side-to-side adjustments.

Card Width Setting Guide

Card Width	Vernier Setting	Side Gap	Card Width	Vernier Setting	Side Gap
47	32	82	77	62	37
48	33	80.5	78	63	35.5
49	34	79	79	64	34
50	35	77.5	80	65	32.5
51	36	76	81	66	31
52	37	75.5	82	67	29.5
53	38	73	83	68	28
54	39	71.5	84	69	26.5
55	40	70	85	70	25
56	41	68.5	86	71	23.5
57	42	67	87	72	22
58	43	66.5	88	73	20.5
59	44	64	89	74	19
60	45	62.5	90	75	17.5
61	46	61	91	76	16
62	47	59.5	92	77	14.5
63	48	58	93	78	13
64	49	56.5	94	79	11.5
65	50	55	95	80	10
66	51	53.5	96	81	8.5
67	52	52			
68	53	50.5			
69	54	49			
70	55	42.5			
71	56	46			
72	57	44.5			
73	58	43			
74	59	41.5			
75	60	40			
76	61	38.5			

Formulation

Vernier Gauge Setting
Card Width - 15

Side Gap Setting
260 - (3 x Vernier Setting) / 2

Cross Cutting / Guillotine Section (change template)

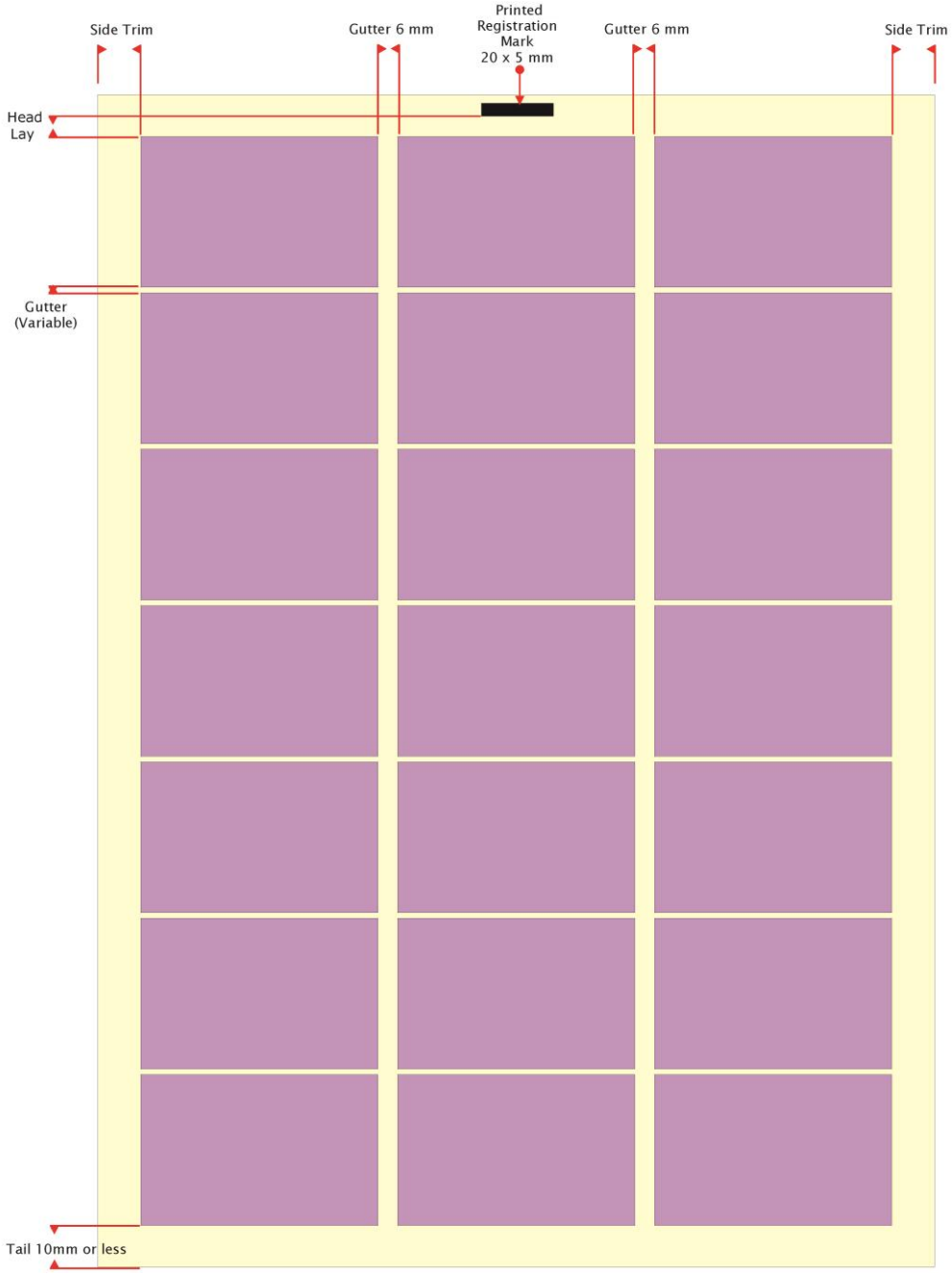
The ZIP21 uses a programmable control and a guillotine cutter to cut the sheet into sections. The programmable controls are easy to set-up and adjust. Scissor or gutter cut formats can be programmed and produced on the ZIP21.

Refer to the Programming Section for set up.

There is no need to remove any screws on this section. The Cross Cutting / Guillotine Section is factory set and should not require adjustment. Make sure only qualified engineers carry out adjustments to this part of the Zip21.

Note:

If the Gutter cut is not a straight scissor cut it must be 2mm or larger.



Programming

The program requires four pieces of information to be entered before a job can be run.

“No:” = The number of pieces to be cut out along the length of each sheet.
Note:
If you are running three rows of seven-up business cards on the sheet then the value of "No:" would equal 7.

“Length:” = The length of each piece to be cut out along the length of each sheet.
Note:
If you are producing a 50mm high business card then the value of "Length:" would equal 50.00

“Margin:” = The space between the trail edge of the registration mark and the first cut.
Note:
If the first cut is 12mm from the trail edge of the registration mark then the value of "Margin:" would equal 12.00

“Gutter:” = The size of gutter to be removed between each individual piece on the sheet.
Note:
If you are using a 3mm gutter between business cards to remove a bleed then the value of "Gutter:" would equal 3.00. If no gutter needs to be removed the value of "Gutter:" would equal 0.0

To program a job into memory:

File to be saved as “TEST”
21 Business Cards to view (3 columns of 7) on an A3 sheet.
Top Margin 12mm
Business Card Height 57mm
No Cross Cut Gutter

Action		Display
Turn Zip21 on	Machine will initialise.	M=005.0mm L=055.0mm G=003.0mm N=07 STOP
Press “SET”	Machine displays existing job names alphabetically.	File name: TEST Total 45 files free
Press “+ / yes” or “- / no”	Scrolls through stored programs	File name: TEST Total 45 files free
Press “↓ / Enter”	Asks if you want to recall file	File name: TEST Recall file ? Yes
Press “ - / No ”	Asks if you want to edit file	File name: TEST Edit file ? Yes
Press “↓ / Enter”	Selects program showing	No: = 07 Length: = 055.0mm
Press “↓ / Enter”	Accepts the amount of cut cards as 7.	No: = 07 Length: = 055.0mm
Press “ → “ (RESET) x 2	Moves cursor to units position.	No: = 07 Length: = 055.0mm
Press “+ / yes” x 2	Increases unit by 2 to 7.	No: = 05 Length: = 057.0mm
Press “↓ / Enter”	Accepts the height of card as 57mm.	Margin: = 005.0mm Gutter: = 003.0mm
Press “ → “ (RESET) x 1	Moves cursor to the tens position.	Margin: = 005.0mm Gutter: = 003.0mm

Press “+ / yes” x 1	Increases tens by 1.	Margin: = 015.0mm Gutter: = 003.0mm
Press “ → “ (RESET) x 1	Moves cursor to the unit position.	Margin: = 015.0mm Gutter: = 003.0mm
Press “ - / No ” x 3	Decreases units by 3.	Margin: = 012.0mm Gutter: = 003.0mm
Press “↓ / Enter”	Accepts the top margin as 12mm.	Margin: = 012.0mm Gutter: = 003.0mm
Press “ → “ (RESET) x 2	Moves cursor to the unit position.	Margin: = 015.0mm Gutter: = 003.0mm
Press “ - / No ” x 3	Decreases units by 3.	Margin: = 012.0mm Gutter: = 000.0mm
Press “SET”	Save current programming	Save data ? No. File name:
Press “+ / yes”	Accepts that you want to save data.	Save data ? Yes. File name:
Press “↓ / Enter”	Asks for File name.	Enter File name: _
Press “+ / yes” x ?	Cycles through alphabet. Stop once you reach the first letter of the file name.	Enter File name: A
Press “ → “ (RESET) x ?	Moves cursor to second position	Enter File name: T _
Press “+ / yes” x ?	Cycles through alphabet. Stop once you reach the second letter of the file name.	Enter File name: TE
Continue spelling file name		Enter File name: TEST
Press “↓ / Enter”	Saves file name	Data saved
		M=012.0mm L=057.0mm G=000.0mm N=07 STOP

Important: The recommended trim off from the tail edge of the sheet is between 4mm – 10mm (0.160" - 0.3937"). Tail edge trim off that is too long may hang up in the guillotine causing the Zip21 to display an error. If this occurs, turn the power "OFF". Remove the top guard and remove the tail edge trim off scrap. Assure that the recommended tail trim off dimension is established when laying out the sheet prior to printing.

Important: The Zip21 paper handling rollers that convey the stock through the machine are designed to handle a specific thickness of paper. If the paper is thicker or thinner, there may be a slight difference in the programmable cut off length. If the paper is thicker, the cut off length is usually longer. If the paper is thinner, the cut off length is usually shorter. After running the first sheet, check the cut off size and make any adjustments required in the program.

Important: Due to the feed system of the Zip21, the last card cut can be slightly longer than the others. This is also affected by the thickness of the paper; the thicker the paper, the bigger the difference. To overcome this an OFFSET can be programmed into the machine and this is described in detail in the later section headed ‘Programming an Offset’.

To Edit a job in memory:
File to be edited "TEST"
21 Business Cards to view (3 columns of 7) on an A3 sheet.
Top Margin from 5mm to 9mm
Business Card Height from 55 to 57mm
2mm Cross Gutter to No Cross Cut Gutter

Action		Display
Turn Zip21 on	Machine will initialise.	M=005.0mm L=055.0mm G=002.0mm N=07 STOP
Press "SET"	Displays job names alphabetically and the amount of free memory.	File name: TEST Total 48 files free
Press "+ / yes"	Scrolls through files. Press until filename appears.	File name: TEST Total 48 files free
Press "↓ / Enter"	Asks if you want to recall file	File name: TEST Recall file ? Yes
Press " - / No "	Asks if you want to edit file	File name: TEST Edit file ? Yes
Press "↓ / Enter"	You can now edit the program called 'TEST'	No: = 07 Length: = 055.0mm
Press "↓ / Enter"	Accepts that there are 7 cards per sheet.	No: = 07 Length: = 055.0mm
Press " → " (RESET) x 2	Moves cursor to units position.	No: = 07 Length: = 055.0mm
Press "+ / yes" x 2	Increases unit by 2.	No: = 07 Length: = 057.0mm
Press "↓ / Enter"	Accepts the height of card as 57mm.	Margin: = 005.0mm Gutter: = 002.0mm
Press " → " (RESET) x 2	Moves cursor to units position.	Margin: = 005.0mm Gutter: = 002.0mm
Press "+ / yes" x 2	Increase units by 4	Margin: = 009.0mm Gutter: = 002.0mm
Press "↓ / Enter"	Accepts Margin setting.	Margin: = 009.0mm Gutter: = 002.0mm
Press " → " (RESET) x 2	Moves cursor to units position.	Margin: = 009.0mm Gutter: = 002.0mm
Press "- / no" x 2	decreases units by 2	Margin: = 009.0mm Gutter: = 000.0mm
Press "SET"	Accepts Gutter setting	Save data ? No. File name:
Press "+ / yes"	Accepts that you want to save data.	Save data ? Yes. File name:
Press "↓ / Enter"	Asks for File name and displays it.	Please input name. File name: TEST
Press "↓ / Enter"	Tells you the file exists.	File exists !! Overwrite ? No
Press "+ / yes"	Accept	File exists !! Overwrite ? Yes
Press "↓ / Enter"		Data saved

To Recall a job:

File to be recalled “TEST”
21 Business Cards to view (3 columns of 7) on an A3 sheet.
Top Margin 9mm
Business Card Height 57mm
No Cross Cut Gutter

Action		Display
Turn Zip21 on	Machine will initialise.	M=005.0mm L=055.0mm G=002.0mm N=05 STOP
Press “SET”	Machine displays existing job names alphabetically and the amount of free memory.	File name: JOB1 Total 48 files free
Press “+ / yes”	Scrolls through files. Press until filename appears.	File name: TEST Total 48 files free
Press “↓ / Enter”	Asks if you want to recall this file	File name: TEST Recall file ? Yes
Press “↓ / Enter”	Program is recalled to operating memory and displayed	M=009.0mm L=057.0mm G=000.0mm N=07 STOP

To Delete a job:

File to be deleted “TEST”

Action		Display
Turn Zip21 on	Machine will initialise.	M=005.0mm L=055.0mm G=002.0mm N=07 STOP
Press “SET”	Machine displays existing job names alphabetically and the amount of free memory.	File name: JOB1 Total 48 files free
Press “+ / yes”	Scrolls through files. Press until filename appears.	File name: TEST Total 48 files free
Press “↓ / Enter”	Asks if you want to recall file	File name: TEST Recall file ? Yes
Press “ - / No ”	Asks if you want to edit file	File name: TEST Edit file ? Yes
Press “ - / No ”	Asks if you want to delete file	File name: TEST Delete file ? Yes
Press “↓ / Enter”	Checks you are sure	File name: TEST Delete ? Yes
Press “↓ / Enter”		Data is deleting….
		File name: Total 48 files free
Press “SET”	Returns to original program	M=005.0mm L=055.0mm G=002.0mm N=07 STOP

Programming an Offset:

Last card cut is 0.2mm longer than the others

Action		Display
Press "SET"	Machine displays existing job names alphabetically and the amount of free memory.	File name: JOB24 Total 48 files free
Press " - / No " or "+ / yes"	Scroll through the programs to choose the one required	File name: JOB1 Total 48 files free
Press "↓ / Enter"	Asks if you want to recall this file	File name: JOB1 Recall file ? Yes
Press " - / No "	Asks if you want to edit file	File name: JOB1 Edit file ? Yes
Press "↓ / Enter"	Machine displays current program	No: = 07 Length: = 057.0mm
Press "Start and Yes" together	Machine displays Offset message	Offset: 000.0mm
Press " → " (RESET) x 3	Moves cursor across to 'tenths'	Offset: 000.0mm
Press "+ / yes" x 2	Increases 'tenths' to 0.2	Offset: 000.2mm
Press "↓ / Enter"	Accepts Gutter setting	No: = 07 Length: = 057.0mm
Press "SET"		Save data ? No. File name:
Press "↓ / Enter"	Returns to original program	M=012.0mm L=057.0mm G=000.0mm N=07 STOP

Changing machine MODE of operation:

The Zip21 can be run in 4 different modes:

MODE 1 – Registration mark printed on the sheet
MODE 2 – Continuous paper with Registration mark printed on the sheet
MODE 3 – Sheet Edge or dark papers without Registration mark printed on the sheet
MODE 4 – Not used – do not select

Action		Display
		M=012.0mm L=057.0mm G=000.0mm N=07 STOP
Press "↓ / Enter" and " - / No "	Hold down together for 5 seconds	MODE 1 : Mark
Press "+ / yes"	In to next MODE	MODE 2 : Cont. web
Press "+ / yes"	In to next MODE	MODE 3 : Lead edge
Press "+ / yes"	In to next MODE	MODE 4 : NO USE
Press "↓ / Enter"	Press "↓ / Enter" when the mode required is displayed to confirm	M=012.0mm L=057.0mm G=000.0mm N=07 STOP

Display / Error messages

Message	Meaning	Action
"STOP"	ZIP21 in stop mode	
"START"	ZIP21 in run mode	
"WARNING! No Cover"	Top guard is not in place correctly. Top guard micro switch improperly adjusted	Replace Top guard Check Microswitch
"WARNING! No Box"	Waste Collection Box not in place correctly. Micro switch improperly adjusted.	Replace Waste Collection Box Check Microswitch
"Load paper error!"	Paper stuck/jammed in feeder. Paper not feeding correctly	Clear paper. Hold "RESET" button until display clears.
"Paper-Sensor error!"	Problem between sensor & cutting unit. Excess drag on paper caused by paper side guides too tight or friction feeder gap set too tight.	Clear jammed paper. Adjust side guides. Adjust friction feeder. Check for direct light on sensor. Hold "RESET" button until display clears.
"Paper cutting error!"	Guillotine cutter is jammed. Paper may be too thick. Multiple sheets fed through feeder. Cutting cycle has not completed.	Inspect and clear cutter jam. Check stock thickness. Eliminate multiple feed problems. Hold "RESET" button until display clears.
"Paper jam in cutter!"	Paper trim off stuck in cutter.	Clear jam. Hold "RESET" button until display clears.
"WARNING! Memory data"	Programmed data has been lost.	Re-enter set-up data.

Maintenance / Troubleshooting

Sensor – Make sure that the light-detecting sensor is free from dust and other contamination. To clean, wipe with a soft cotton rag.

Rollers – Paper dust and ink residue will accumulate of the rollers causing inaccurate feeding. To clean, wipe with lint less rag. Spirit can be used but do not use Ketone or highly volatile solvents.

Problem	Remedy
Unable to feed card	Check tightness of paper feed side guides. These can be adjusted with the Paper Width Position Thumb Wheel. Check/adjust feed arm spring pressures.
Card strips caught in cutter	Turn off machine first Remove strips with a non metallic object Check that the end cut off strip is 4mm-10mm
Feeding more than one card at a time	Check/adjust feed arm spring pressures Check Paper Separation Board under central feed wheel is clean Check for static in the stock
Cross Cutter does not cut	Check that card is below maximum thickness Tighten the Flush Cut Cutter Pressure Adjustment Buttons to increase contact between blades Check the sensor under rear cover (call service agent for advice)
Poor cut quality from Rotary Side Slitters	Check for off cuts caught around the blades

Important
Turn off Power and disconnect machinery from electrical supply before removing any guards.

Discharging Static Electricity from the Stock

Static electricity is generated by the printing process and paper stocks sliding in and out of contact with each other. This may cause some paper handling problems as below:

- Multiple sheet feeding
- Cut waste not falling into the Waste Collection Box
- Cut waste sticking to cutter blades
- Erratic stacking in Delivery Tray

1. It is important to reduce the amount of static electricity in your card stock.
2. For laser printed stock, wait for 15 minutes before cutting to allow static to discharge.
3. Keep air between printed stocks to help static to discharge.
4. Do not stack printed cards too high.
5. Ideal operating conditions for the least amount static is above 50% humidity.
6. Make sure that your Zip21 is earthed.

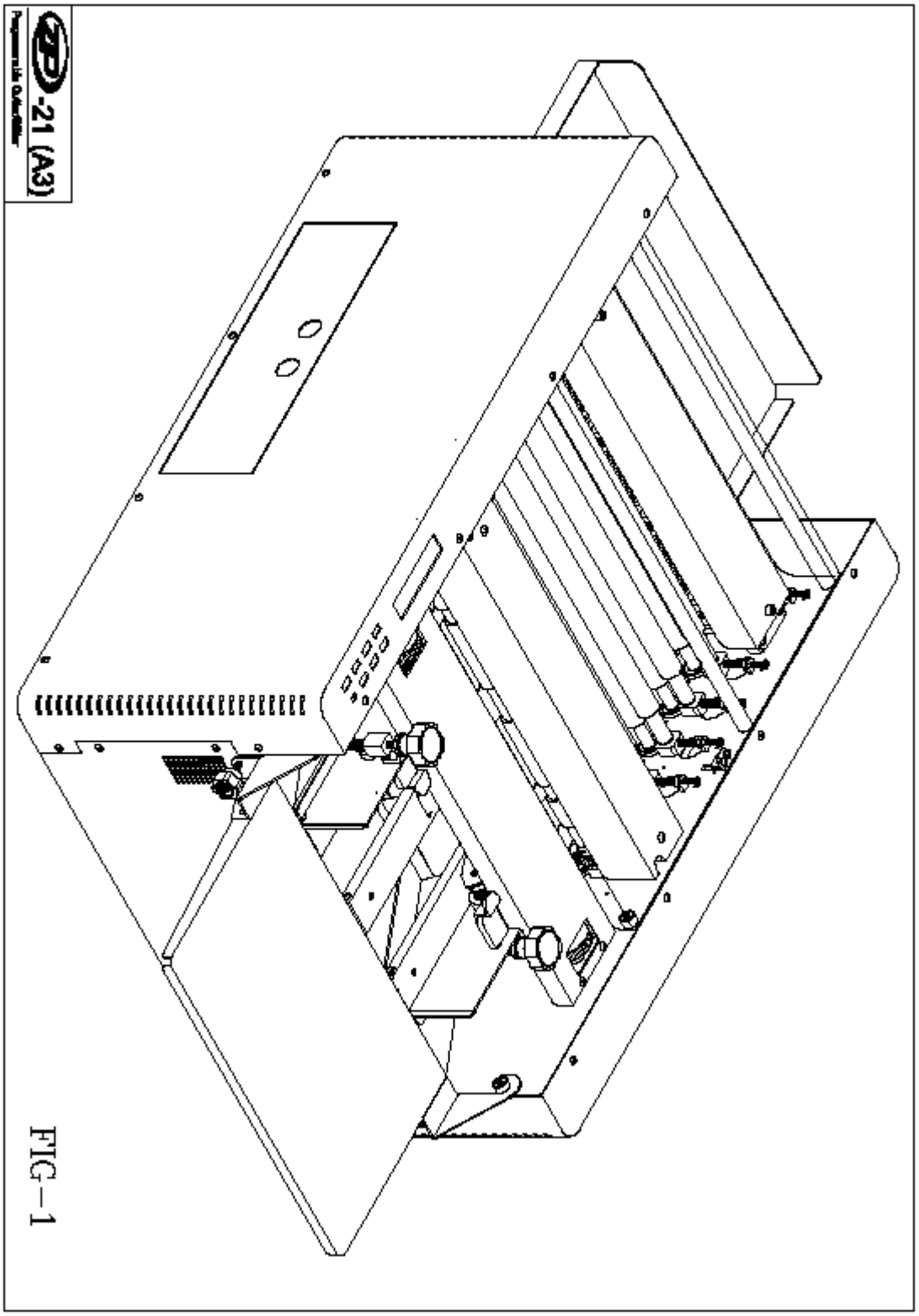
Consumables

Anti-Static Brush
Replace when dirty or when there is visible damage

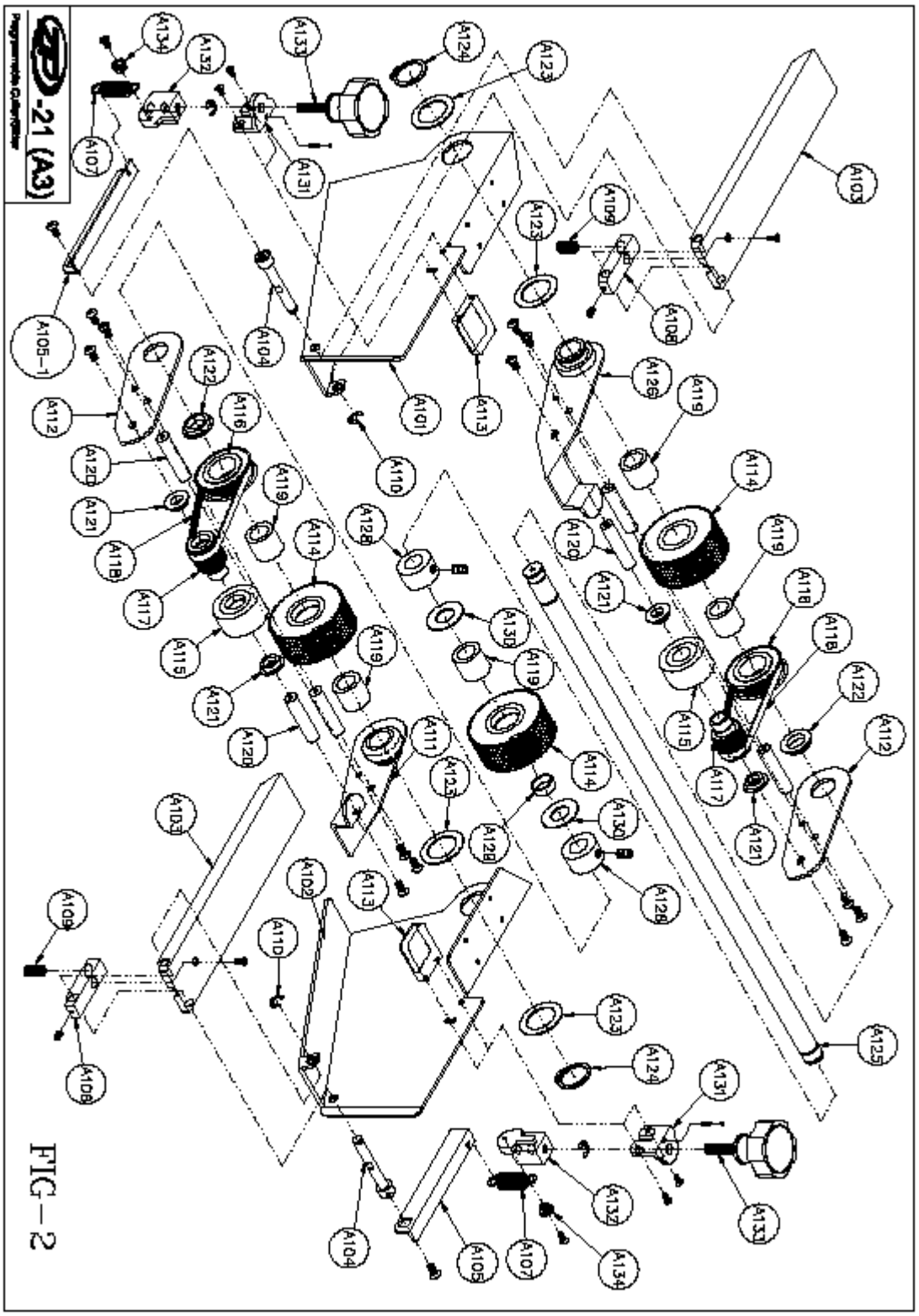
Paper Separation Board
Replace when dirty or when there is visible damage

Rubber Feed Wheels
Replace when dirty or when there is visible damage

Cross Cutter Blade
Suggested life – 2,000,000 cuts. Contact your local agent.



FIG−1


-21 (A3)
A101
A102
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A105-1
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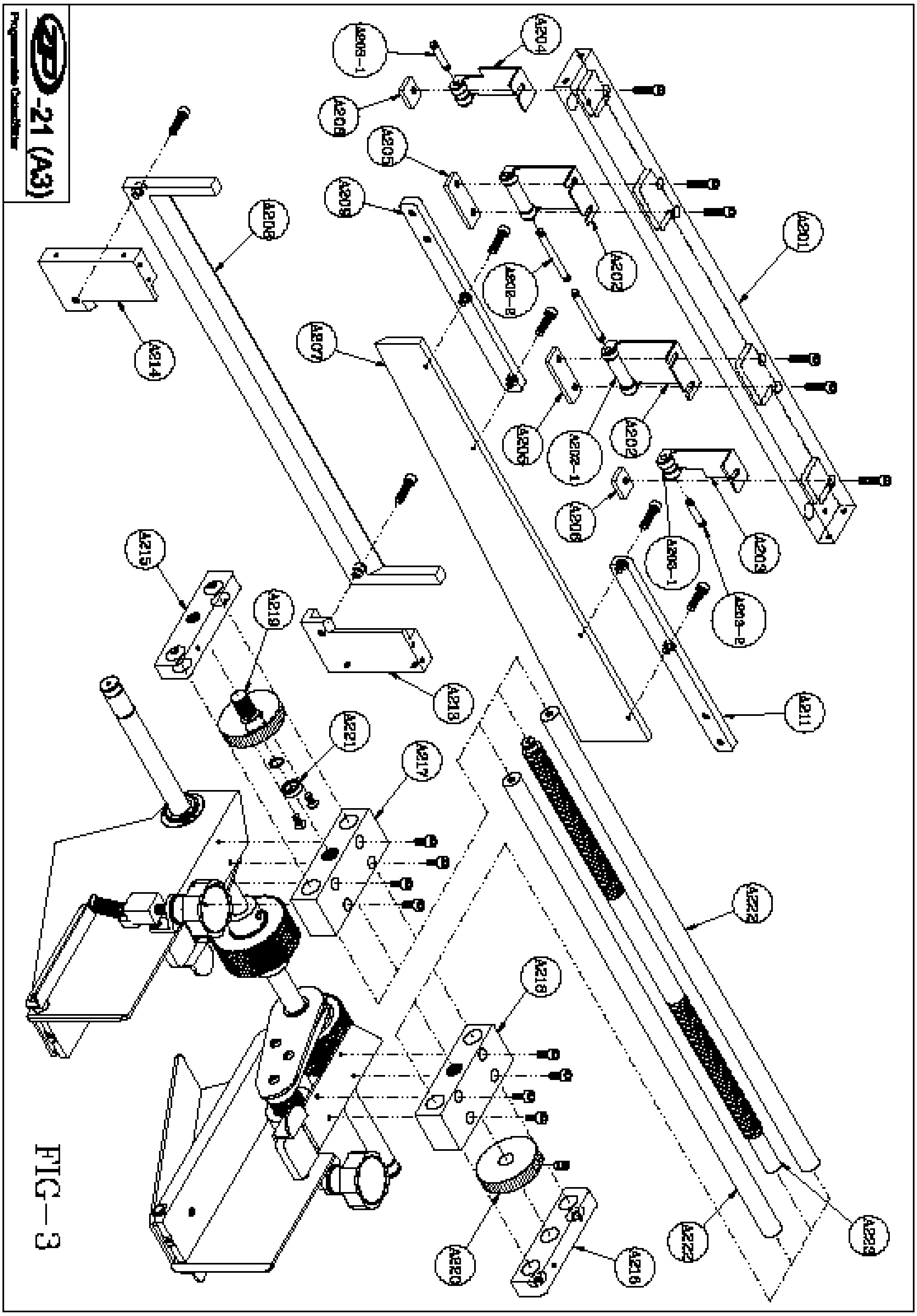
FIG-2

Parts Breakdown ~ Figure 3



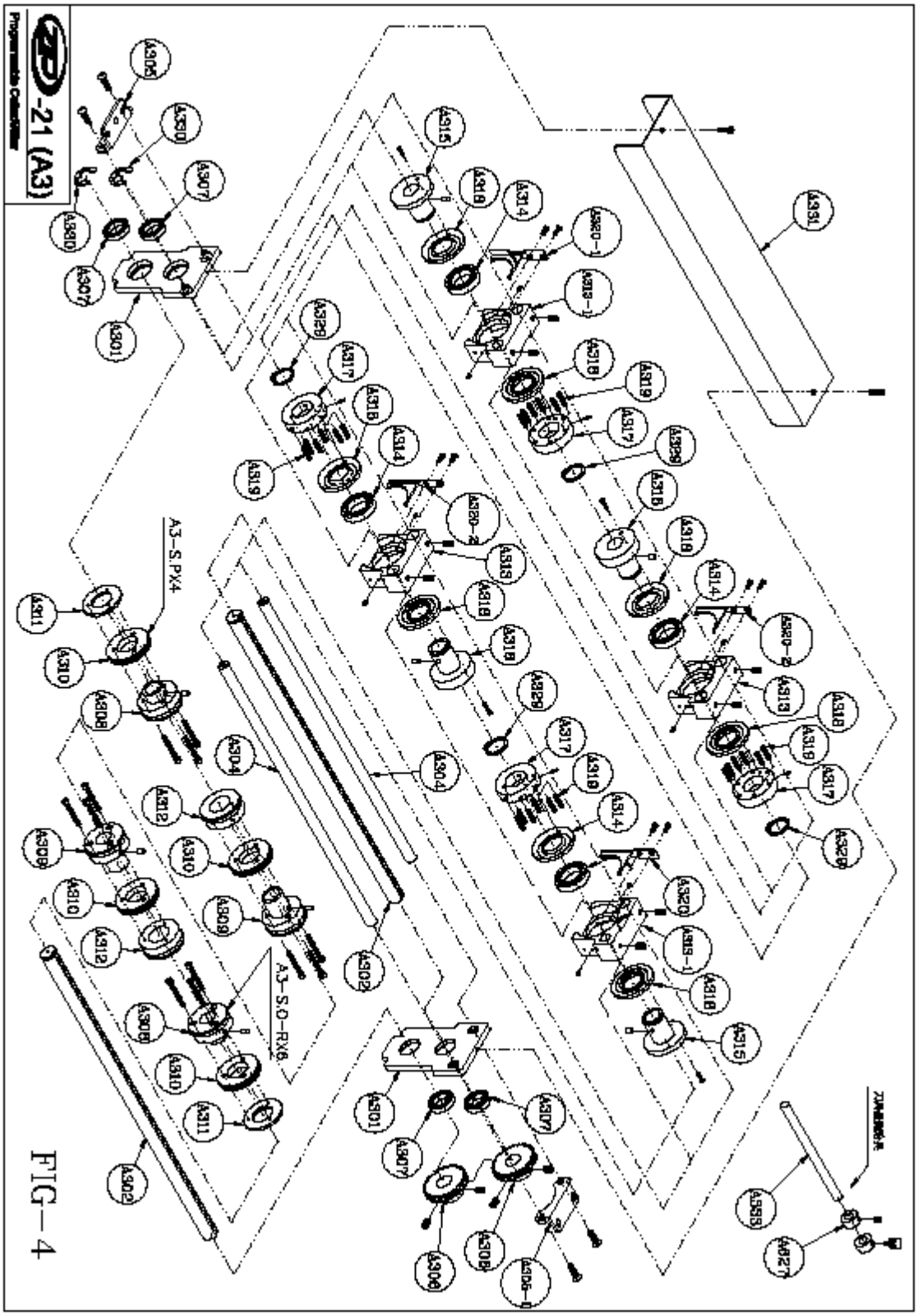
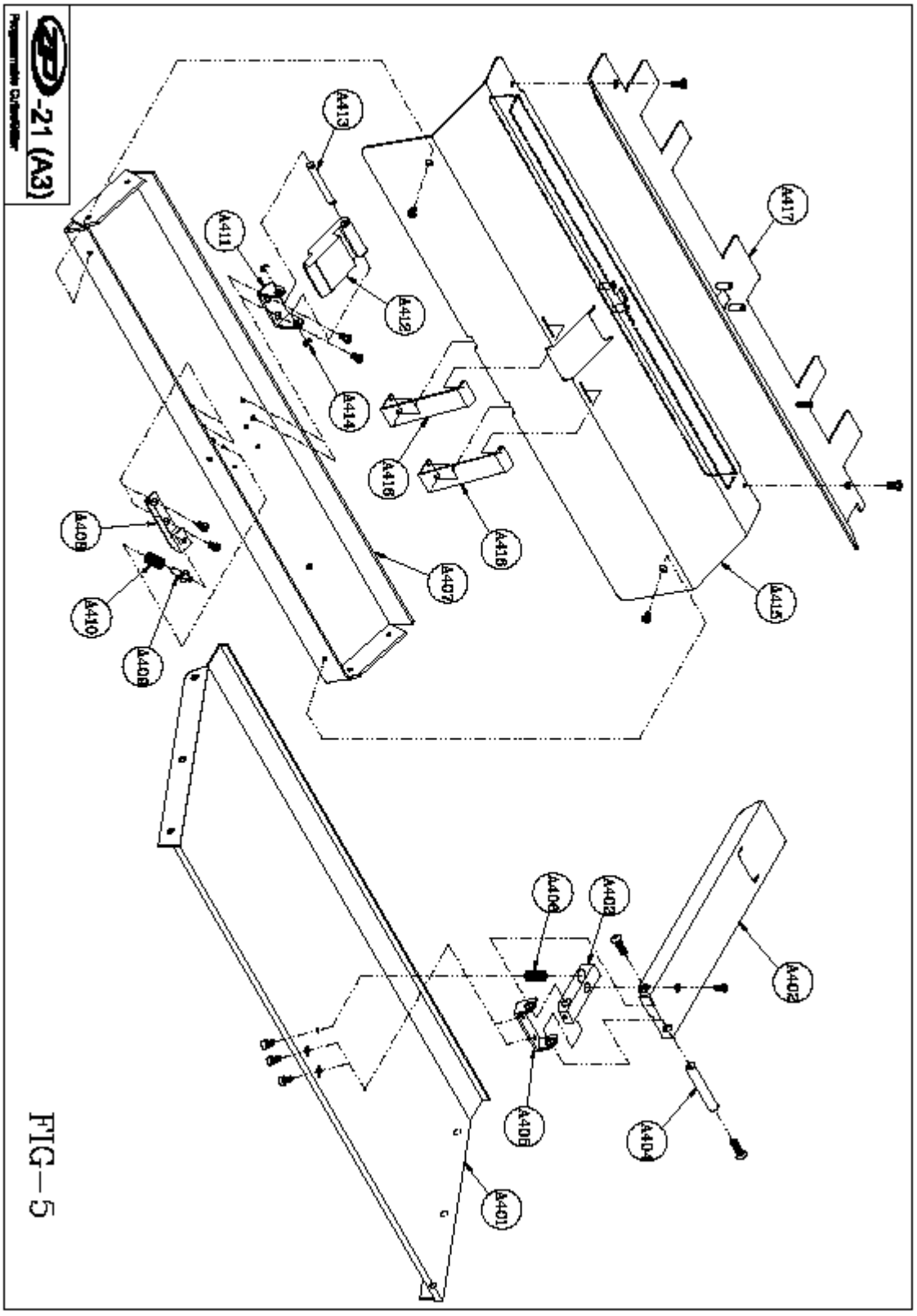
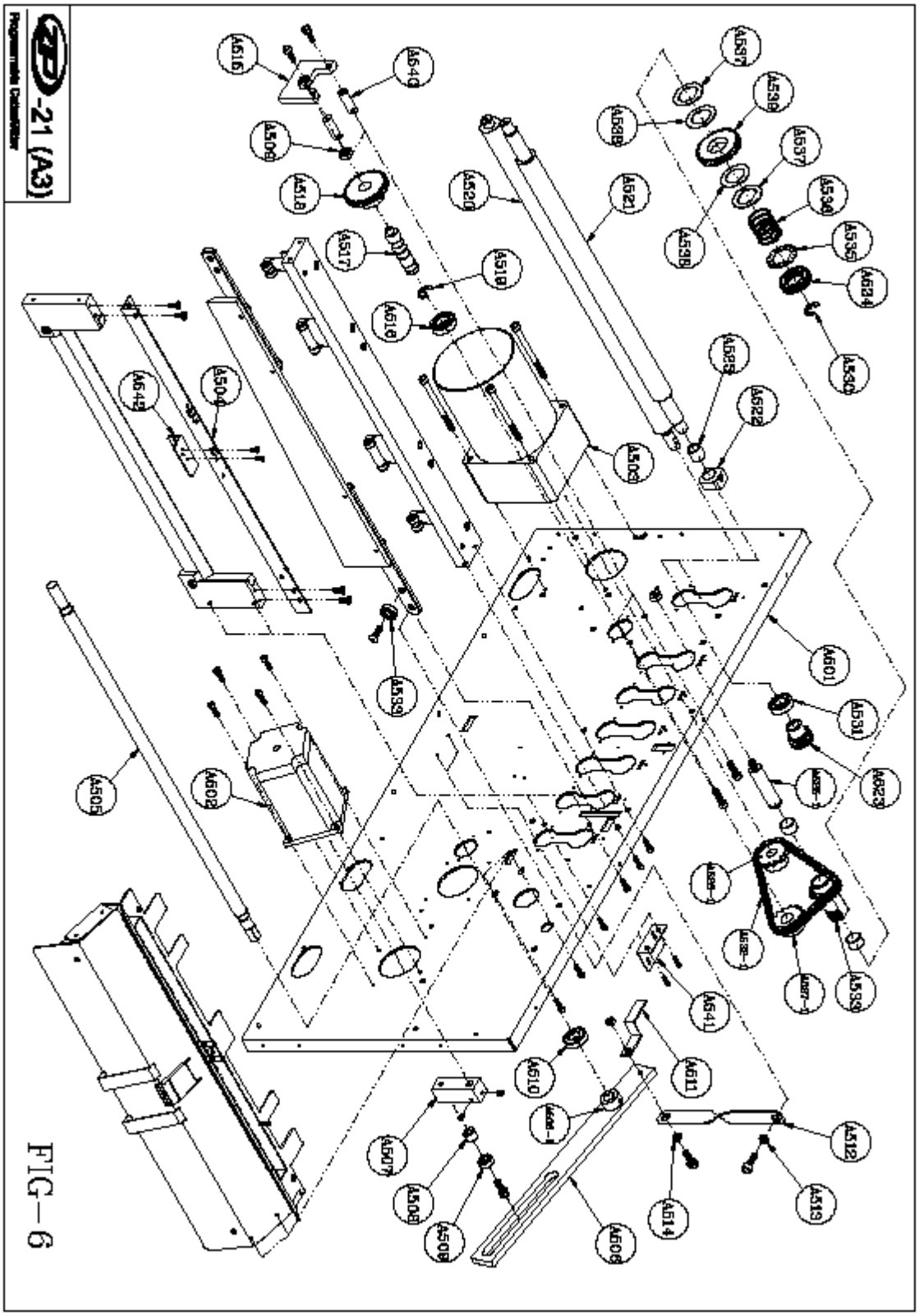
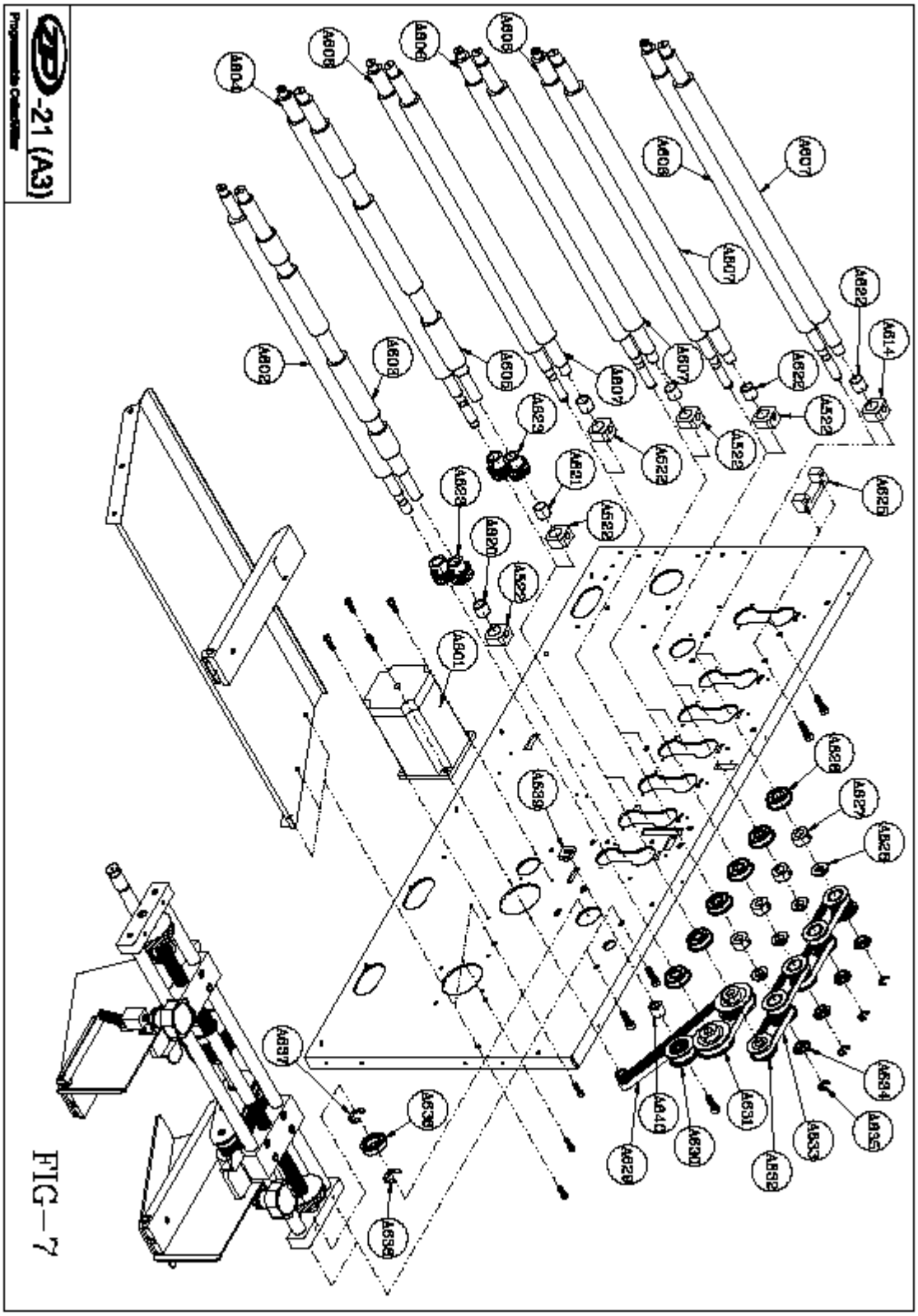


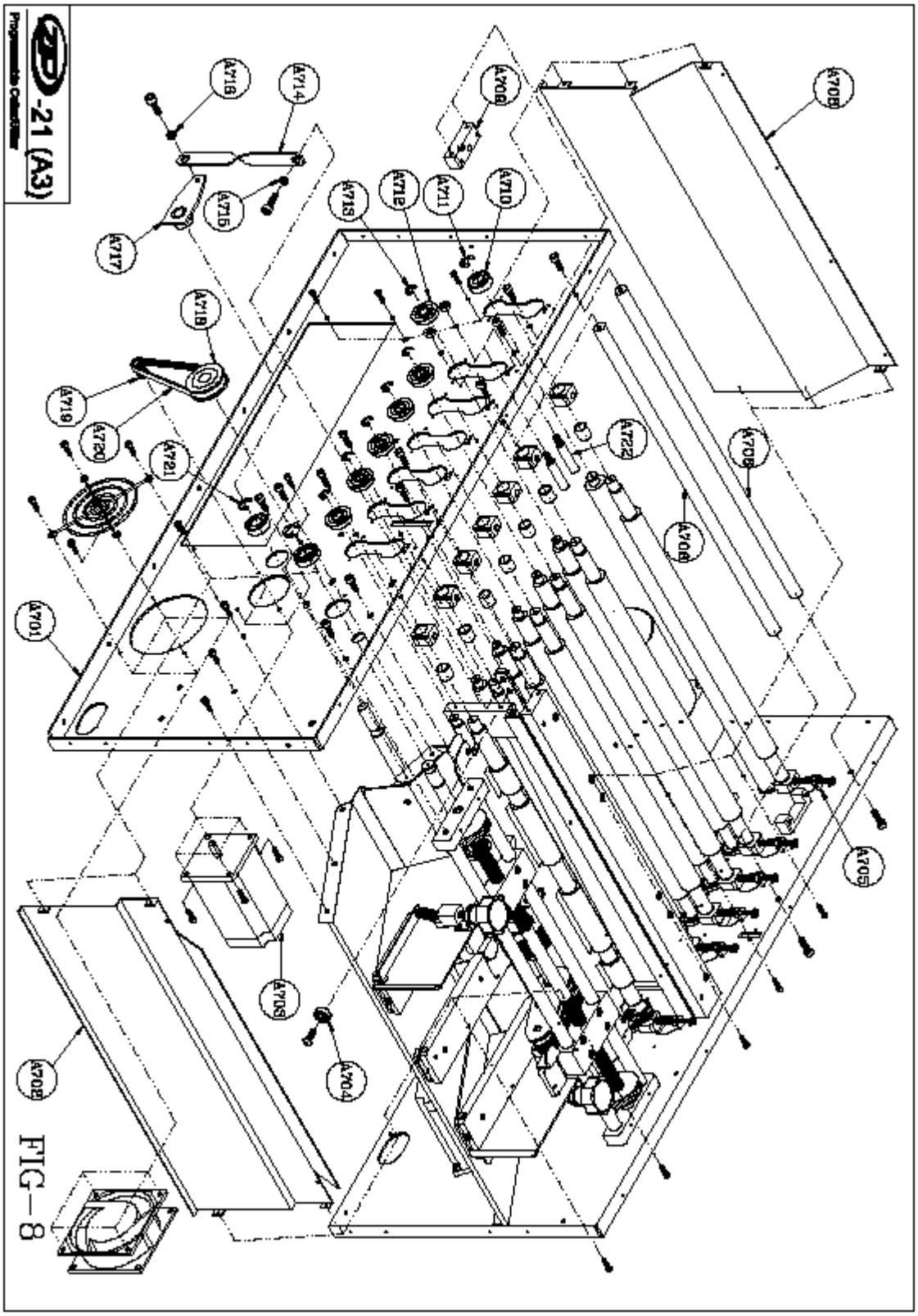
FIG-4


-21 (A3)
A413
A411
A412
A414
A416
A417
A409
A410
A408
A407
A415
A406
A403
A402
A405
A404
A401

FIG—5


-21 (A3)
FIG—6


-21 (A3)
A604
A608
A606
A605
A607
A608
A607
A622
A614
A622
A522
A522
A602
A603
A605
A607
A623
A621
A522
A625
A623
A620
A522
A601
A626
A627
A628
A639
A637
A638
A634
A610
A630
A631
A633
A632
A635
A634
FIG—7


-21 (A3)
A716
A714
A715
A717
A708
A712
A711
A710
A715
A709
A718
A719
A720
A721
A722
A706
A701
A705
A703
A702
A70A

FIG—8

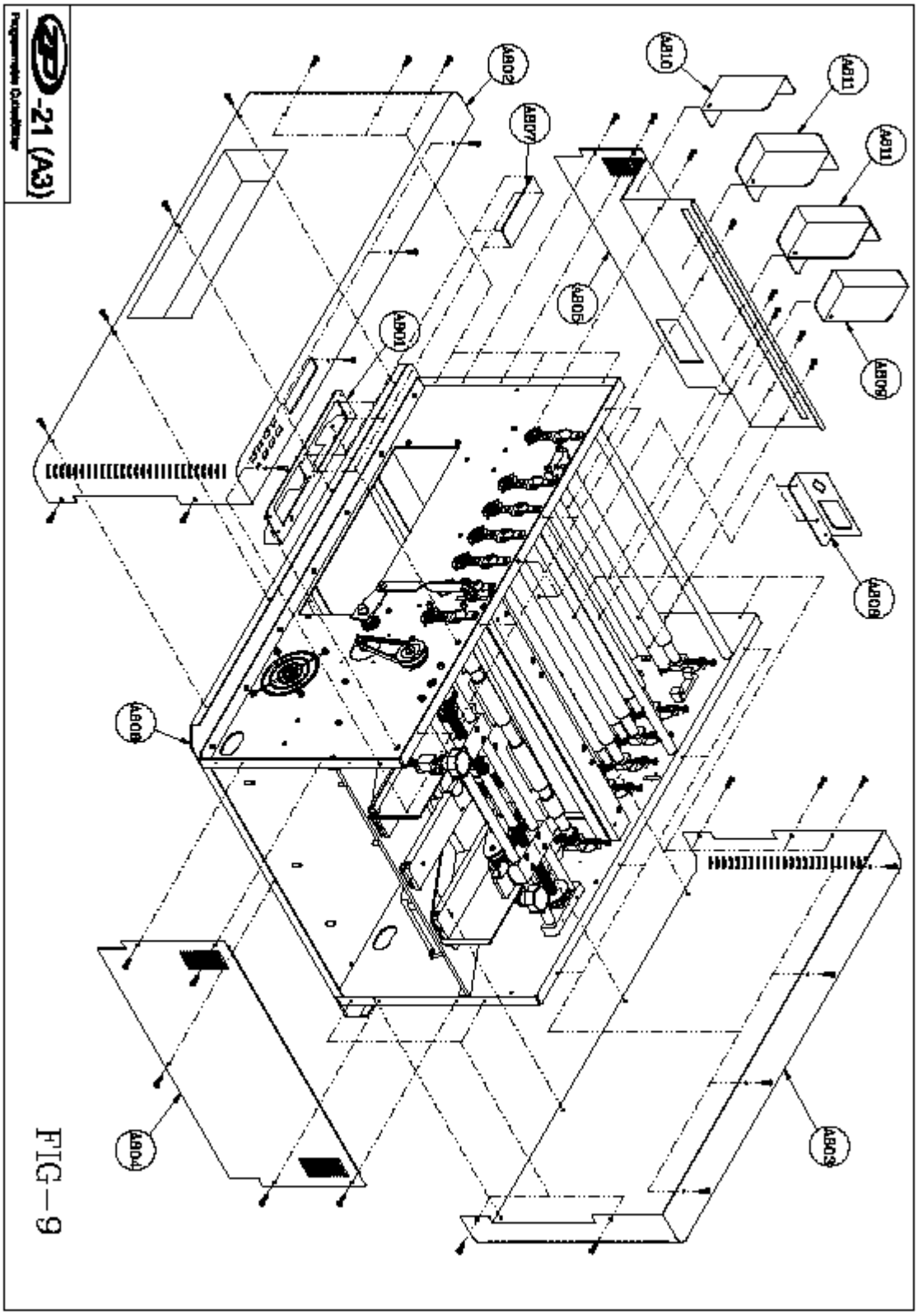
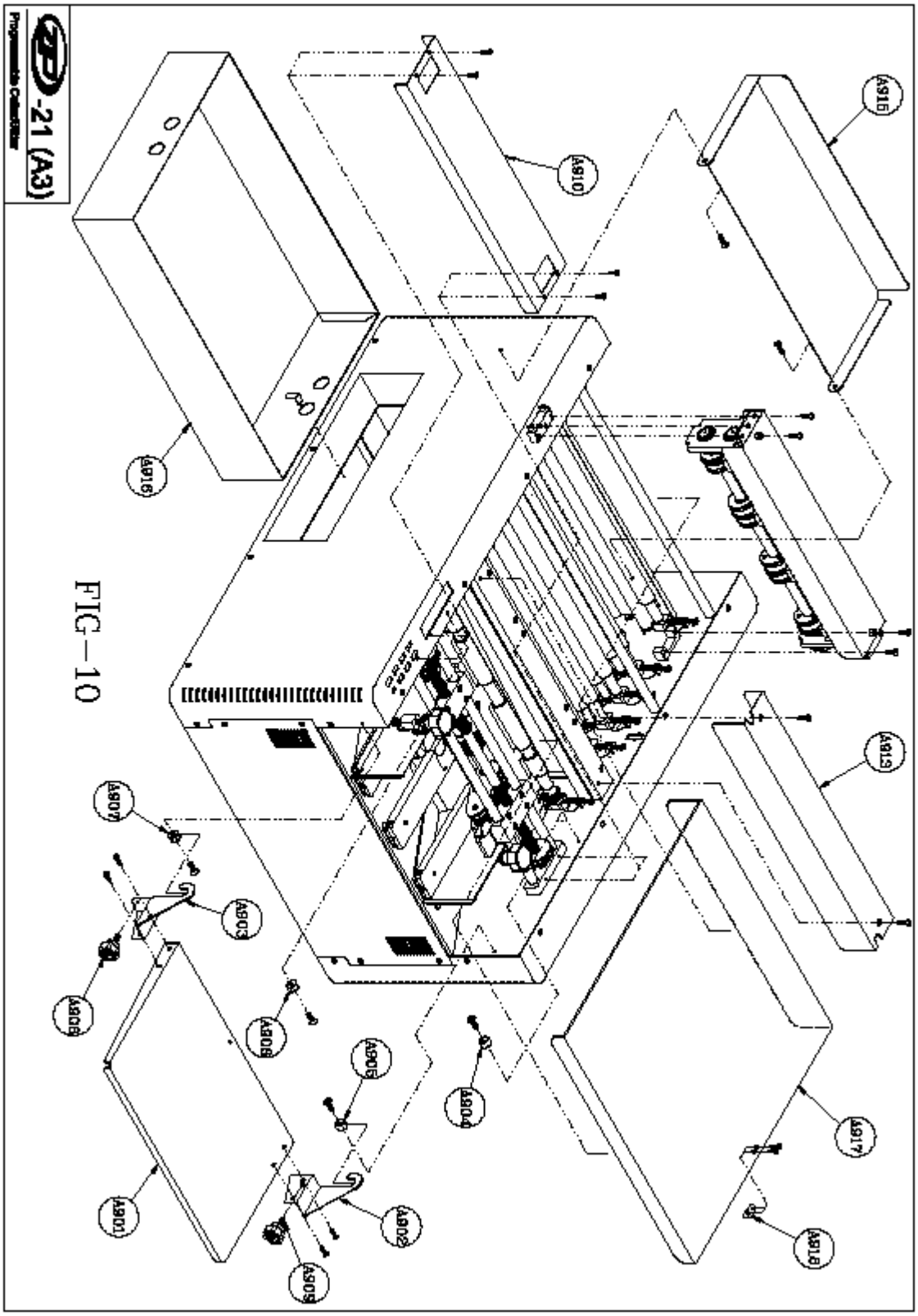

-21 (A3)
AB02
AB10
AB11
AB11
AB07
AB05
AB01
AB06
AB08
AB08
AB04
AB03

FIG-9


-21 (A3)
FIG-10
A9016
A9010
A9015
A9013
A9007
A9003
A9008
A9008
A9005
A9004
A9017
A9001
A9002
A9009
A9018