

Automatic Plate Loader

CRON

USER MANUAL



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Revision History

Version: A0	Date: 2017-3-8
Version: A1	Date: 2018-4-19

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Chapter 1: About this manual

This document describes how to install multi-cassette Autoloader:

Contents

Autoloader user's manual contains the following chapters:

Chapter 2: Overview

Chapter 3: Installation site and environmental requirements

Chapter 4: Unboxing and installing

Chapter 5: Autoloader adjustment and testing

Chapter 6: Operation instructions

Chapter 7: System maintenance

Chapter 8: Abnormal problems analysis and handling

Chapter 9: Autoloader user acceptance

Typographic conventions

This document uses the following typographical conventions:

Calibri(Bold)	Noun first defined and emphasis is indicated in bold
Calibri	Represents the computer display of text and system items

Related documentation

Please refer to 《CTP User manual》 for relevant details on environment and conditions requirements for Automatic Plate Loader installation.

CRON welcomes any valuable comments and suggestions:

CRON welcomes your comments and suggestions on this document, and it's our sincere commitment to provide upmost relevant detail in this document to meet your requirements.

To send in any comments or suggestions, please visit <http://www.cron.com.cn>.

When submitting comments and suggestions, attach the title of the document, indicates page number and any comments, errors or suggestions for improvement found in this document.

If you want to know the upgrade items during production, please refer to the announcements by our company

Chapter 2: Overview

2.1 Automatic plate loader (multi-cassette series)

Automatic plate loader (multi-cassette series) is an automatic plate feeding machine for CRON CTP device. Main functions are: Unattended automatic plate loading, automatic switching to different cassette for other plate size, enable automatic plate feeding according to system output settings configured, includes slip paper detection and separating, no operator intervention and save time, improve production automation and efficiency.

Figure illustration as shown below:

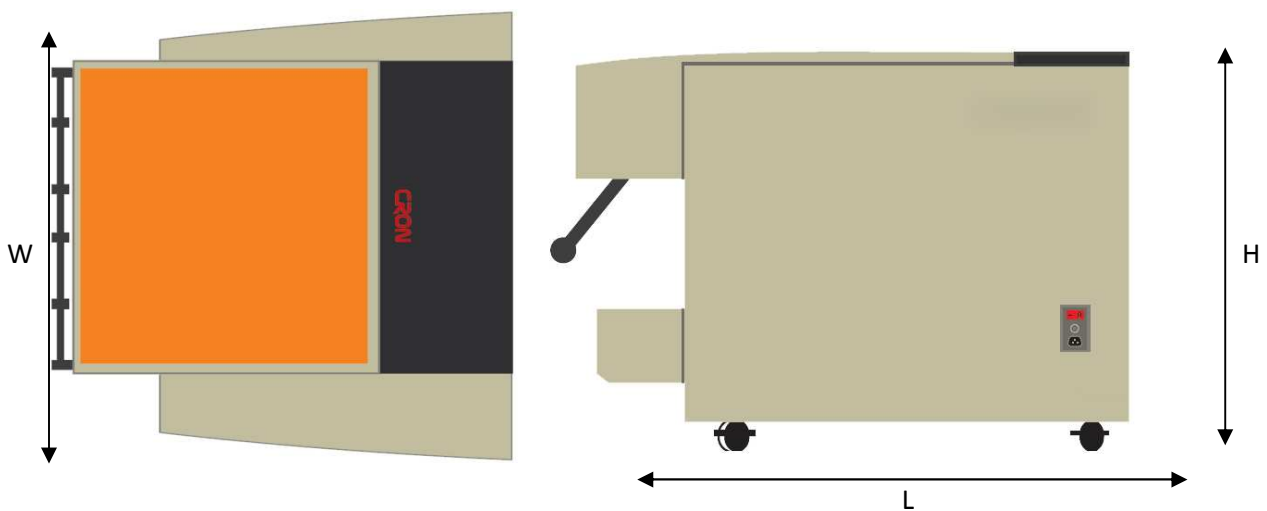


Figure 2-1: Autoloader top view Figure 2-2: Autoloader side view

Table 2-1: Autoloader dimension & weight:

Model	W(cm)	L(cm)	H(cm)	Weight(Kg)	Packing Dimension(cm)
AL26M3-50(H)	136	110	104	480	170×140×147
AL36M3-50(H)	160	120	110	620	190×160×140
AL36M5-50(H)	160	120	110	720	190×160×140
AL46M3-50(H)	185	122.5	110	670	215×170×147
AL46M5-50(H)	185	122.5	110	770	215×170×147

2.2 Automatic plate loader (hight-capacity Series)

Main functions are: Unattended automatic plate loading, The max.loading amount can up to 200 plates (500 Model can load 500 plates) enable automatic plate feeding according to system output settings configured, includes slip paper detection and separating, no operator intervention and save time, improve production automation and efficiency.

Figure illustration as shown below:

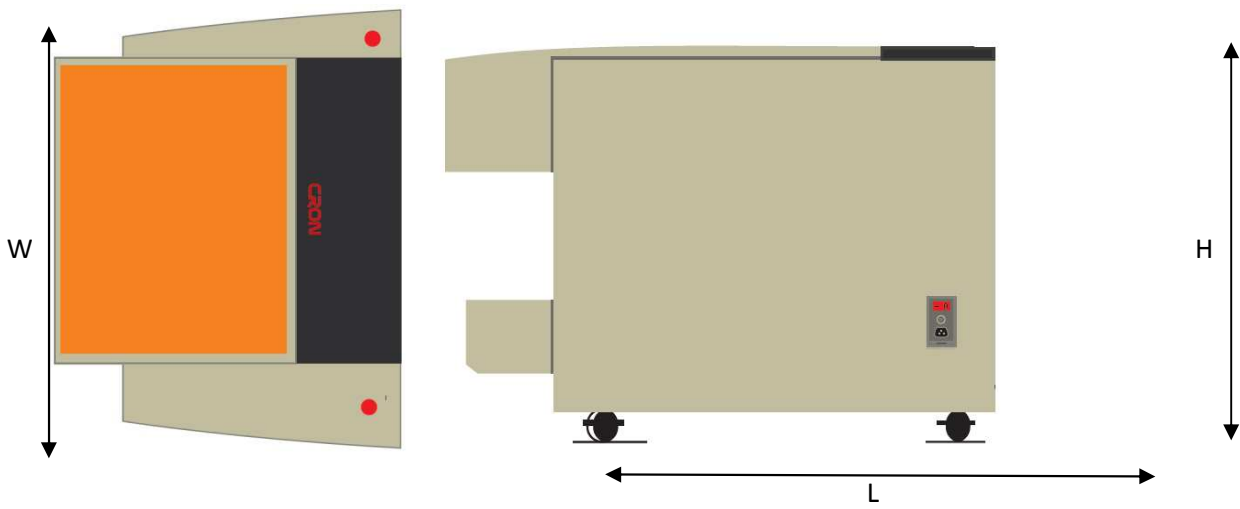


Figure 2-3: Autoloader top view

Table 2-2: Autoloader dimension & weight:

Model	W(cm)	L(cm)	H(cm)	Weight(Kg)	Packing Dimension(cm)
AL26-200 (H)	136	96	104	430	170×140×147
AL36-200N (H)	160	110	110	560	190×160×140
AL36-500 (H)	160	110	110	560	190×160×140
AL46-200N (H)	185	122.5	110	580	215×170×147
AL46-500 (H)	185	122.5	110	770	215×170×147

2.3 Power requirement

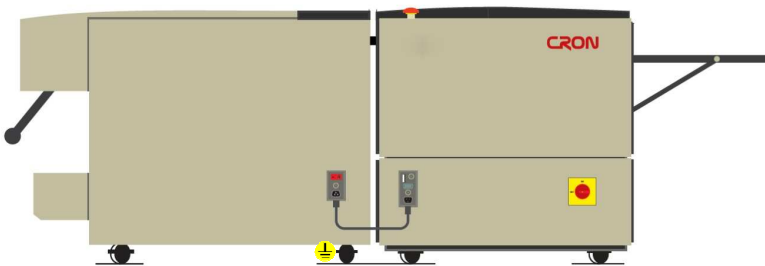
Table 2-2: Power requirements of the system

Device Model	Rated power (kW)	Power supply requirements
AL26-50M3(H)	1.3	Refer CTP user manual for power supply

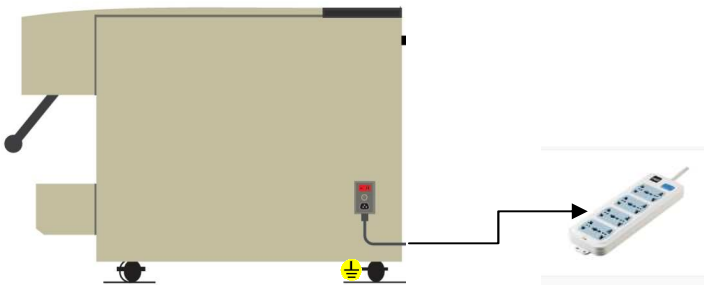
AL36-50M3(H)	1.3	Refer CTP user manual for power supply
AL36-50M5(H)	1.3	Refer CTP user manual for power supply
AL46-50M3(H)	1.3	Refer CTP user manual for power supply
AL46-50M5 (H)	1.3	Refer CTP user manual for power supply

2.4 Power connection & wiring

2.4.1 Power supply connection for Autoloader is obtained directly from CRON CTP platesetter device (connection at the USB port panel of the CTP). Equipment must be having ground resistance < 0.5Ω, independent ground terminal connector is located on the lower rack of the power supply input terminal.



2.4.2 Power supply connection for Autoloader is obtained directly from Power supply socket (UL)



2.5 Safety and Caution labels

In the use of this device, please strictly comply with the requirements of the warning signs in the device!

WARNING !

Before using the automatic plate loader, please read carefully and understand the manual content. Strictly follow all safety rules and regulations process while operating the equipment. Failure to follow the safety precautions will not only damage the equipment but may even result in personal injury.

DANGER !

Unauthorized attempts of disassembling or alteration, and/or misuse, inappropriate operation of the equipment hardware or modification of its circuitry may result in serious damage or malfunction to the automatic plate loader (AL).



Caution Electricity!

Do not allow the body to come into contact with live current flowing parts of the device. Put on anti-static gloves to prevent static or power surge when handling with electronic or electrical components. Do not touch the power cord areas and other electrical components with bare hands. Do not operate or turn on switch with wet hands.



Overhead obstacle!

Equipment cover's opening or closing, careful of head collision.



Beware of hand crush!

Please open or close the lead cover slowly, and avoid hands being crushed.



Caution hot surface!

Do not touch the high temperature working part of equipment directly,



Emergency stop switch

Emergency stop switch is a safety measure function; when in an emergency situation, press the emergency stop switch, the device cut off the cassette platform movements motor power supply.

2.6 Safety Information

Electrical Safety

- ◆ Equipment must be grounded effectively;
- ◆ To protect the equipment and personal safety, it is recommended to install indoor lightning arresting rod;
- ◆ All maintenance work on the equipment must be carried out with the power off;
- ◆ When the equipment is working, do not touch the moving parts of the machine with your hands or fingers.

Mechanical safety

- ◆ Only under the circumstances necessary to dismantle the device casing;
- ◆ Be attention to the machinery operation, always wear gloves, tools and parts must be placed in an orderly manner;
- ◆ Do not perform any maintenance or modifications to the equipment system that is not authorized by CRON.
- ◆ Do not place any foreign objects on the device;
- ◆ In non-emergency situations, it is strictly prohibited to press the emergency stop button;
- ◆ In the operation of mechanical parts, always wear gloves, so as to avoid rusting parts; tools and parts should be placed in order;
- ◆ Avoid overhead collision during equipment operation.

Other safety aspects

- ◆ The device is not intended to be used in an explosive or potentially explosive atmosphere.
- ◆ Fireworks is prohibited near the occasion of this device;
- ◆ Prevent water or other liquids from flowing into the interior of the device;
- ◆ Debris, scrap or residue generated from the use of this equipment must be handled in accordance with the laws and regulations of the hazardous material management authority in the country / region in which it is used.

Policy of equipment requirements

- ◆ To ensure that customer's installation site, environment and conditions, are able to meet and comply to the equipment operational requirements.

Chapter 3: Installation Site and Environmental Requirements

Please refer document “CTP User's Manual” for relevant detail to confirm the layout of the automatic plate loader installation with CTP device for work space and environmental requirements.

Refer to Table 3-1, given the size of the autoloader and consider the space needed, minimum distance between wall and machine is 100cm, size of the room(space) needed for the machine installation can be determined.

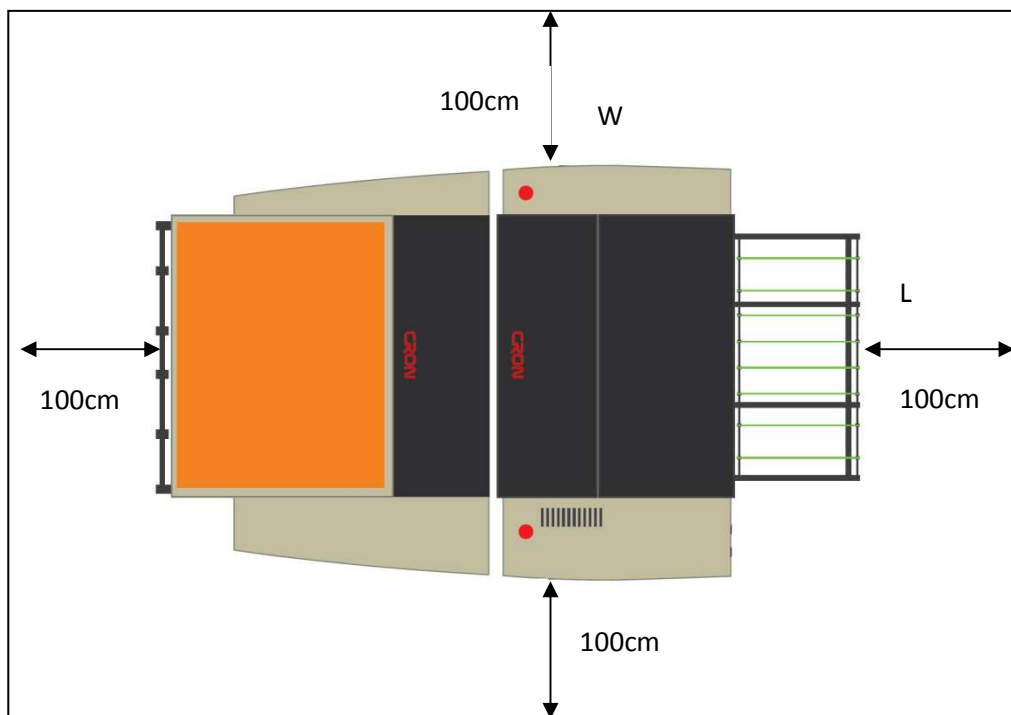


Figure 3-1: Autoloader installation space illustrated

Table 3-1: Autoloader dimension and installation space required. (Note: not including the space (length & width) required for the CTP device attached).

Device Model	Equipment Size W(cm)	Equipment Size L(cm)	Installation Space W(cm)	Installation Space L(cm)
AL26**	1.4	1.1	3.4	2.1
AL36**	1.6	1.2	3.6	2.2
AL46**	1.9	1.2	3.9	2.2

Chapter 4: Offloading, Unboxing and Installing

4.1 On-site conditions during offload handling

Customer needs to provide handling equipment and tools to ensure the safe handling of the machine to the installation site. In the meantime, CRON engineers will assist with the handling and uncrating on site.

4.2 Shipment packing

Auto-loader plate machine is usually packed in a wooden crate box for easy shipping and handling. The following table lists the package sizes and weight.

Table 4.1: Packing dimension and weight

Model	W(cm)	L(cm)	H(cm)	Weight(Kg)
AL26M3-50 (H)	170	140	147	580
AL36M3-50 (H)	190	160	147	720
AL36M5-50 (H)	190	160	147	820
AL46M3-50 (H)	215	170	147	780
AL46M5-50 (H)	215	170	147	880
AL26-200 (H)	170	140	147	530
AL36-200N (H)	190	160	147	660
AL36-500 (H)	190	160	147	660
AL46-200N (H)	215	170	147	690
AL46-500 (H)	215	170	147	690

4.3 Loading & unloading equipment

Customers must provide forklift or crane with minimum load-bearing for more than 1000kg. Forks length must be more than 150cm. If necessary, lengthen the span of two forks according to the wooden box and the structure of the machine to adjust to the corresponding width.

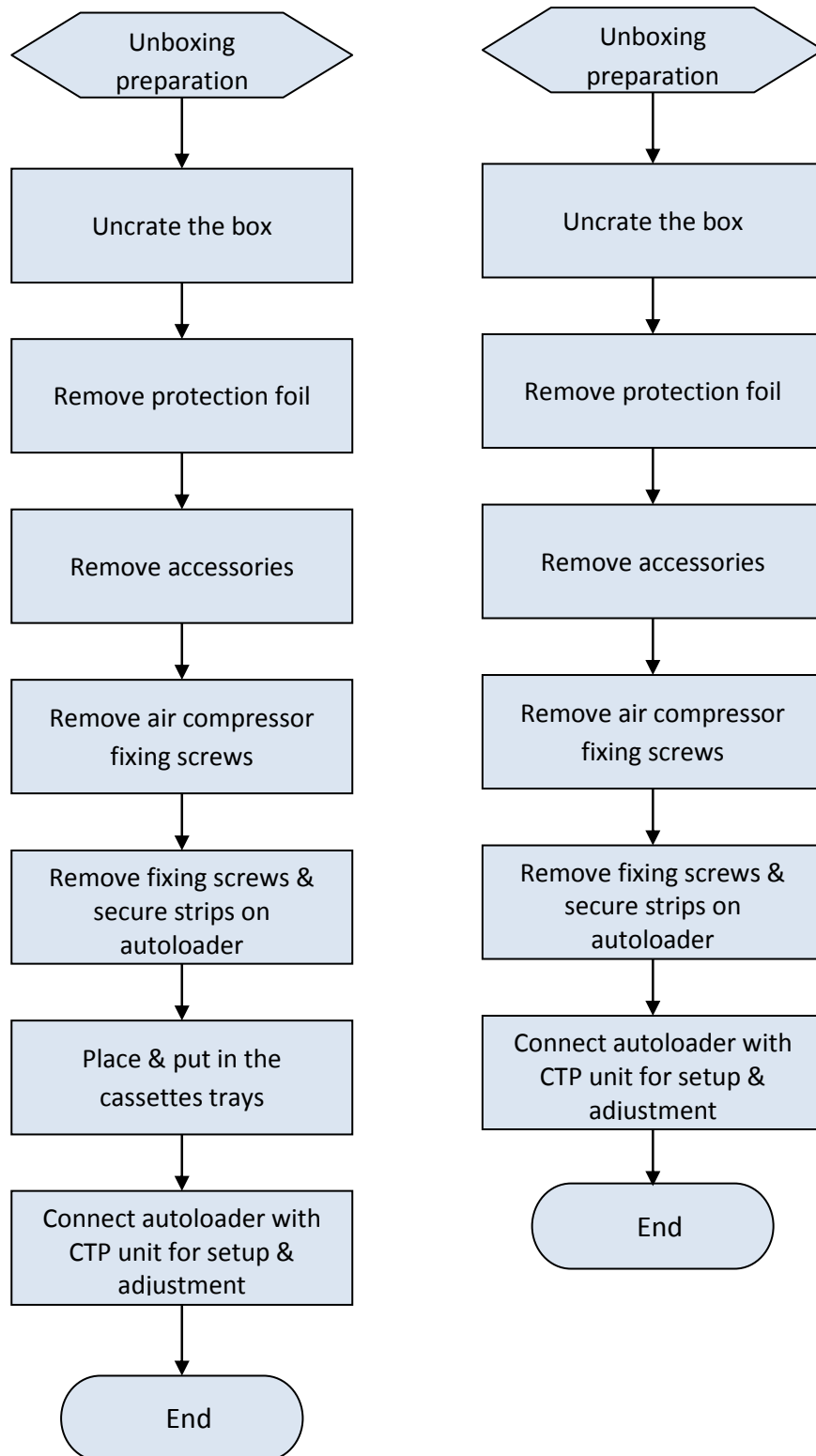


4.4 Installation personnel

CRON advised customer to provide professional handling personnel to move the machine to the premises of installation and unpack the crate, with CRON professionals work together on site.

4.5 Unboxing, fixing and installing

Auto-loader plate machine unboxing flow chart:



4.5.1 Unboxing preparation

First of all, check the crate box is intact, tilt indicator whether has any toner presence of overflow beyond the guide line. If problems are found, they should be documented and feedback to CRON immediately. Ready tools for unboxing: long nose pliers, hex wrenches, adjustable wrench(24mm), scissors/cutter, etc.

4.5.2 Uncrate the box:

Use long-nose pliers to loosen the wooden case lock;

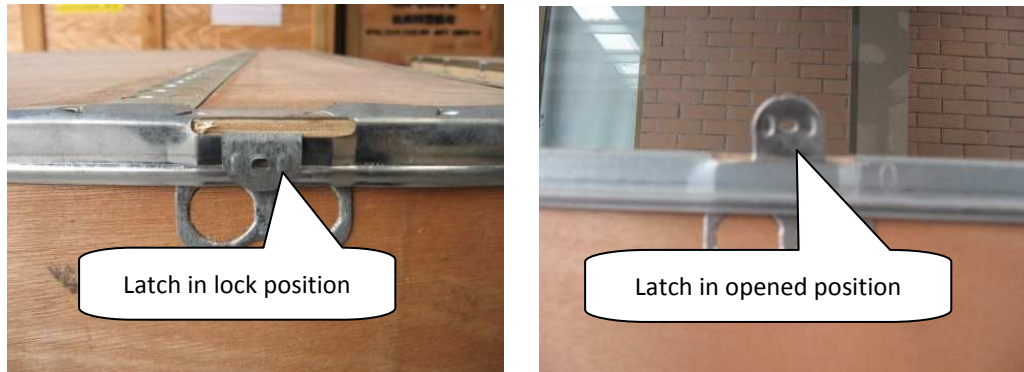


Figure 4-2: Autoloader crate lock

4.5.3 Follow the steps to remove the wooden box cover, side panels and pallet base. (as shown in Figure 4-3 and Table 4-1);

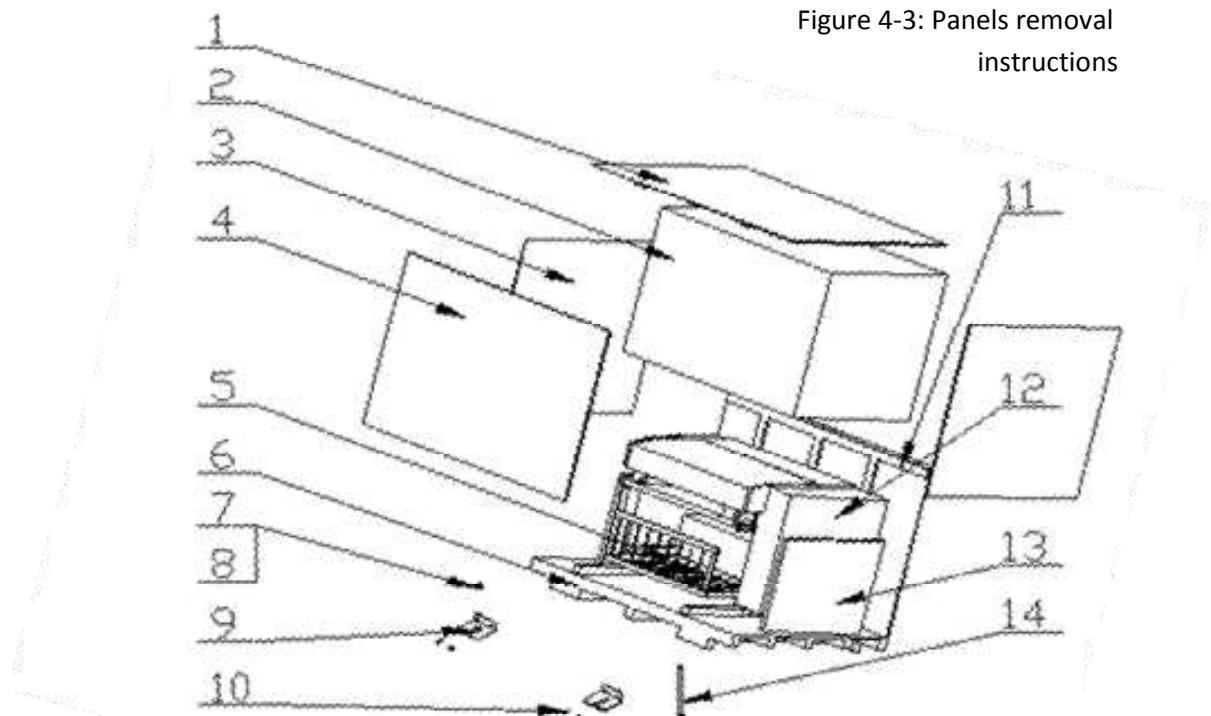


Figure 4-3: Panels removal instructions

Table 4-1: Wooden crate panels list

No	Description	Figure/ModelNo.	Material/ Specification	Qty	Note
1	Wooden box cover			1	
2	Aluminum foil bag			1	
3	Wooden box end panels			2	
4	Wooden box side panels 1			1	
5	Slips paper collector			1	
6	Wooden pallet base			1	
7	Nut M10	GB/T 6710 M10		4	
8	Flat shims Ø10	GB/T97.1 10		4	
9	Packing fixing brackets	TP46-2001		4	
10	Hex screws M6*10	GB/T 70.1	12.9 grade alloy steel	8	
11	Wooden box side panels 2			1	
12	Equipment			1	
13	Cassette trays			3	
14	Hex screws M10	GB/T 5785		4	

4.5.3 Removal of aluminium foil:

Cut the foil bag at the bottom in circle, then remove foil bag (Figure 4-4). Be careful not to scratch the equipment while cutting the foil bag

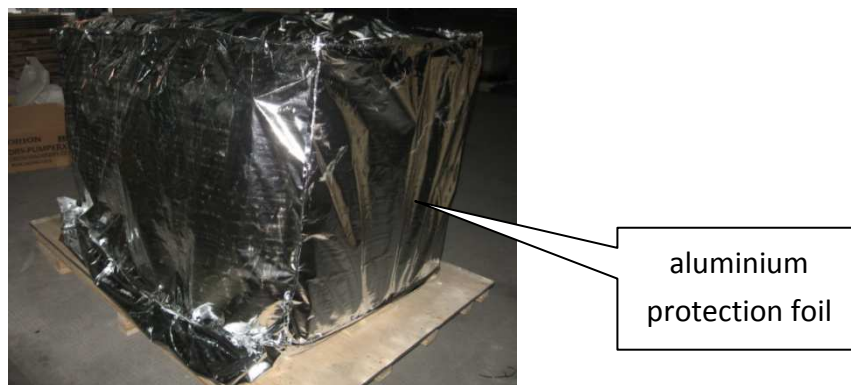


Figure 4-4: Aluminium foil figure

4.5.4 Remove of bundled accessories

Automatic plate loader (multi-cassette series): Find the opening and remove of stretch film, take out the cassette trays, spare part box, slips paper blocks and other accessories.

Automatic plate loader (hight-capacity Series) : Find the opening and remove of stretch film, take out the spare part box, slips paper blocks and other accessories.

Note: Cassette trays should be put on flat and safe place to avoid bumping or falls.

4.5.5 Removing autoloader fixing brackets

Remove hex screws(8-M6*10), loosen the nuts(4-M10), remove all 4 fixing brackets(As shown in Figure 4-5).

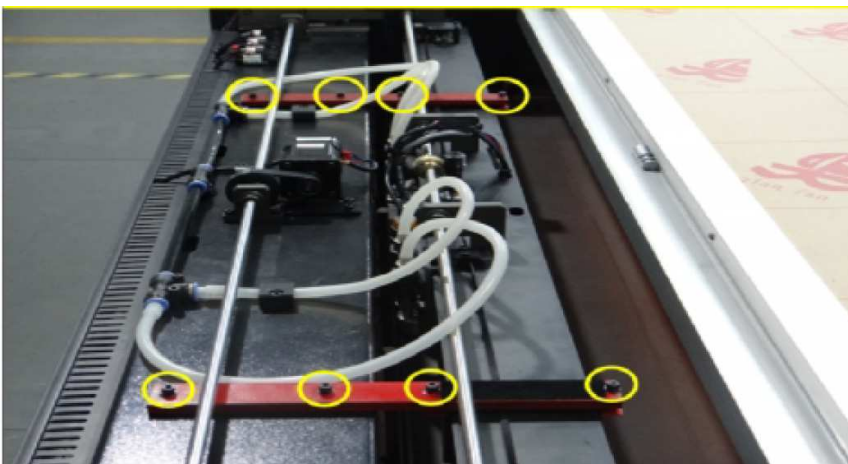


4.5.6 Lifting the device to release fixing screws for air compressor pump

Lift up the autoloader with a forklift. Tip of forks should be over the proper distance from the center of gravity of the device, forks tips should be kept out and visible from the wooden pallet base. Use a hex wrench to loosen and remove the 4 air compressor pump fixing screws M6 * 20 (Figure 4-6) on the right side of the autoloader, and then move the unit close to the installation position or lower it to the level of the floor slowly. (Maintain autoloader unit stable and be cautious while lifting).

Note: Worker should stand on the side of the equipment when disassembling the fixing screw and cannot stand on the bottom of the equipment while being lifted by the forklift!

4.5.7 Take off the top cover of the autoloader, remove the suction arm fixing brackets.

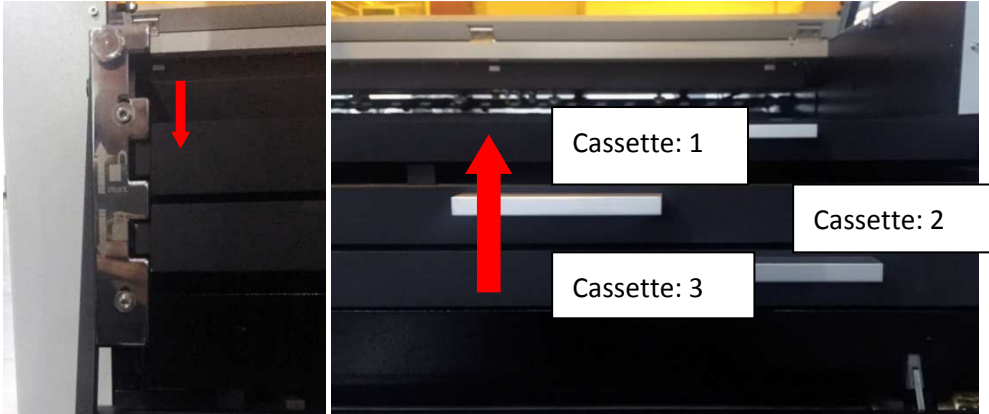


4.5.8 Cut off the pressure roller strap tie



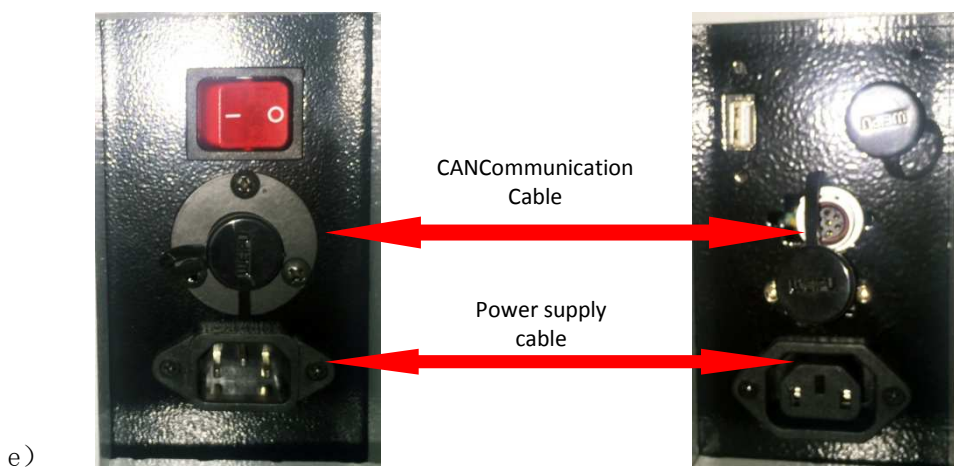
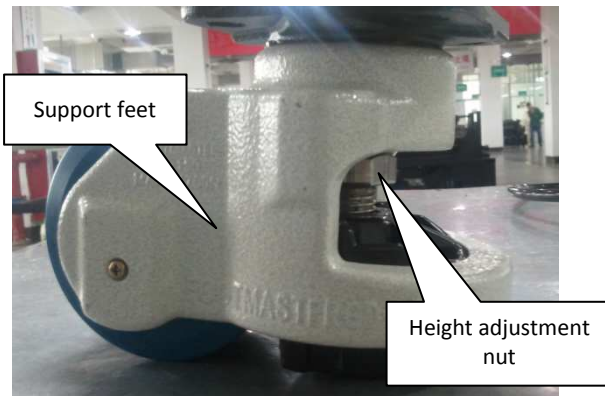
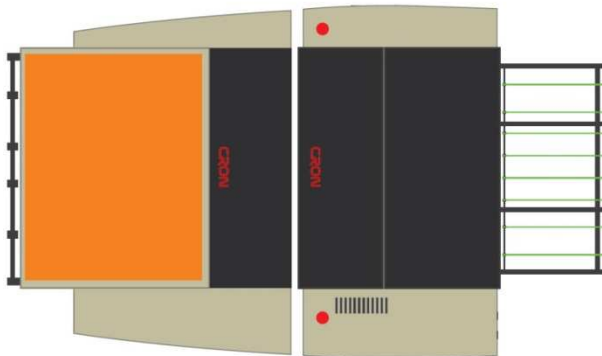
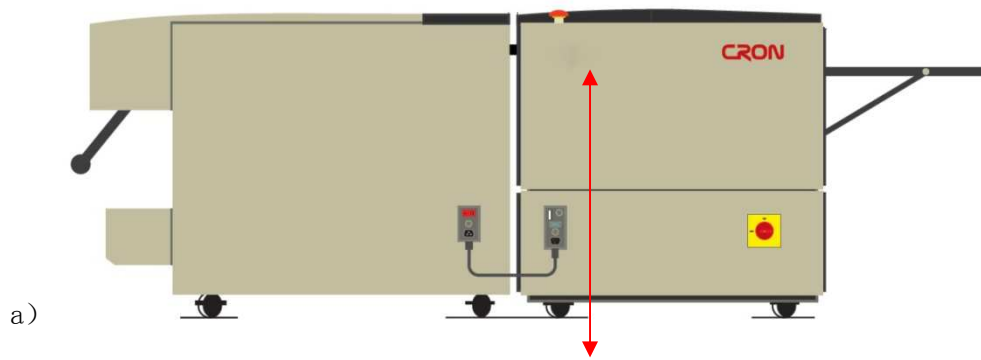
4.5.9 Installing Cassette Trays (Only for multi-cassette series)

- Push the latch downwards to release lock for cassette tray slots.
- Put in the cassette trays begin from lowest slots to highest slots accordingly.
- Differentiate cassette tray slots (Ex: 5-cassettes loader): place the cassette trays #1, #3, #5 with handles close to outer sides, into slots #1, #3, #5 (interchangeable), place cassette trays #2, #4 with handles close inner, into slots #2, #4 (interchangeable).
- Secure the cassette trays lock upwards after all trays inserted to avoid abnormal intervention movement while Autoloader in working condition.



4.5.10 Autoloader installation & setup

- Determine Autoloader height position
Pre-measure the Autoloader's rear output roller height from ground, compare against the host CTP device's plate entrance gap height from ground for proper horizontal (device height) leveling. (Autoloader height adjustment is to be determined by the height of the host CTP device as a reference).
Autoloader support feet adjustment allowance within 0 ~ 10mm. Height of plate entering platform (on CTP) and the height of the plate output path (on Autoloader) should be within this adjustment range.
- Determine left-right position (centering)
Align Autoloader (centering) both sides against the position of the host CTP device.
- Determine front-back position
Push the Autoloader close to the CTP device, but leaving a gap of 10~20mm between.
- Fixing the Autoloader position
Use a flexi-wrench to adjust the Autoloader feet nut to have the leg directly contact on the ground. Ensure that the four legs are evenly supported and the height of the Autoloader device is consistent with the CTP device.
- Connecting power and communication cable (CAN) on Autoloader



Chapter 5: Operation Instructions

5.1 Turning on device

Autoloader power switch is located at the right side of the unit. Turn power switch to the ON for power supply to the device.

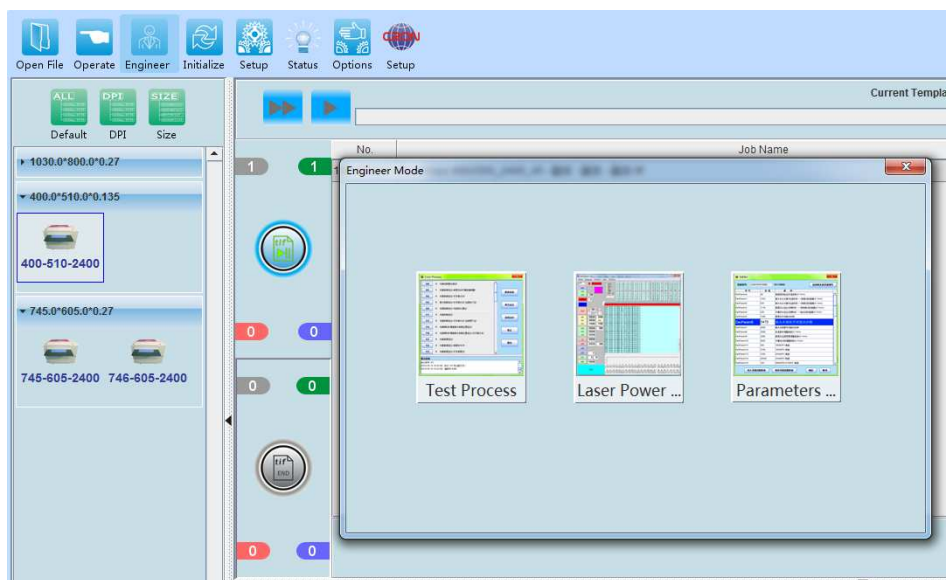


5.2 LaBoo 5.X installation & startup

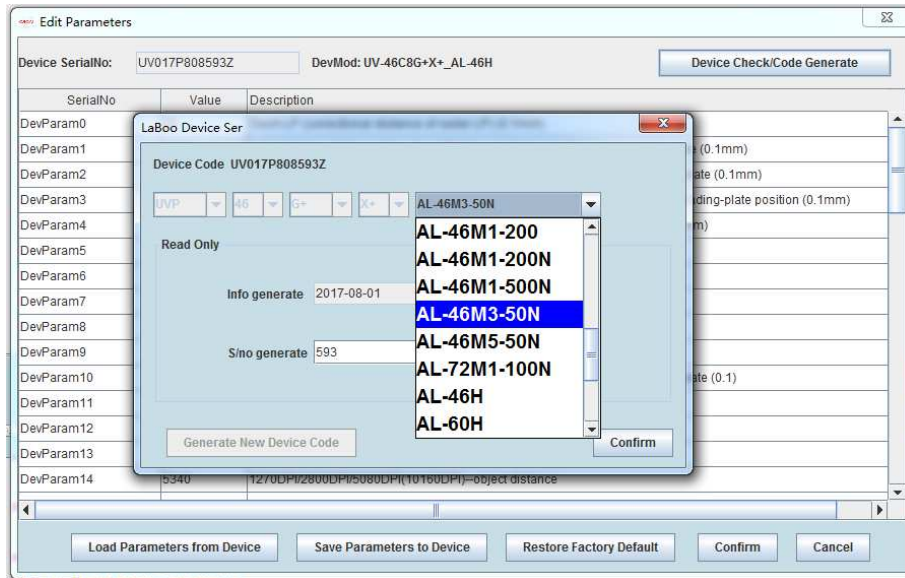
Software installation, please refer to 《CTP User manual》.

5.3 Autoloader selection

- Turn on power for Autoloader, starts up LaBoo 5.x software, select “Engineer” mode, and enter authorization password “*****” to enter to Engineer mode screen;
- Click on “Parameters” button selection to popup the parameterstable dialogs.

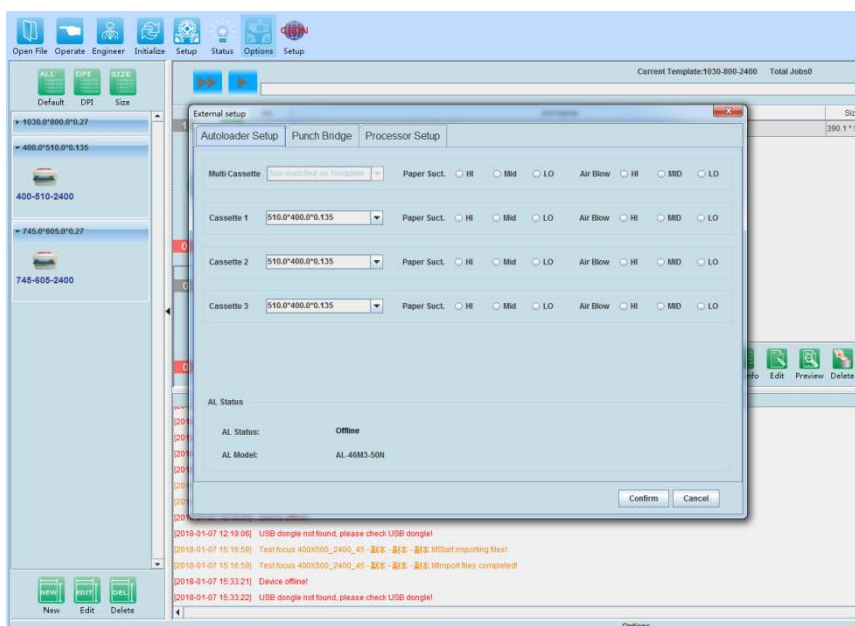


c) Click on the "Device CheckCode Generate" button at upper right corner, and select the correct Autoloader model from listed in the pull down menu box. (Note: If Autoloader is supplied together with the host CTP device during installation, Autoloader corresponding information is contained or preset in host CTP device's parameters in factory. You may ignore this step).



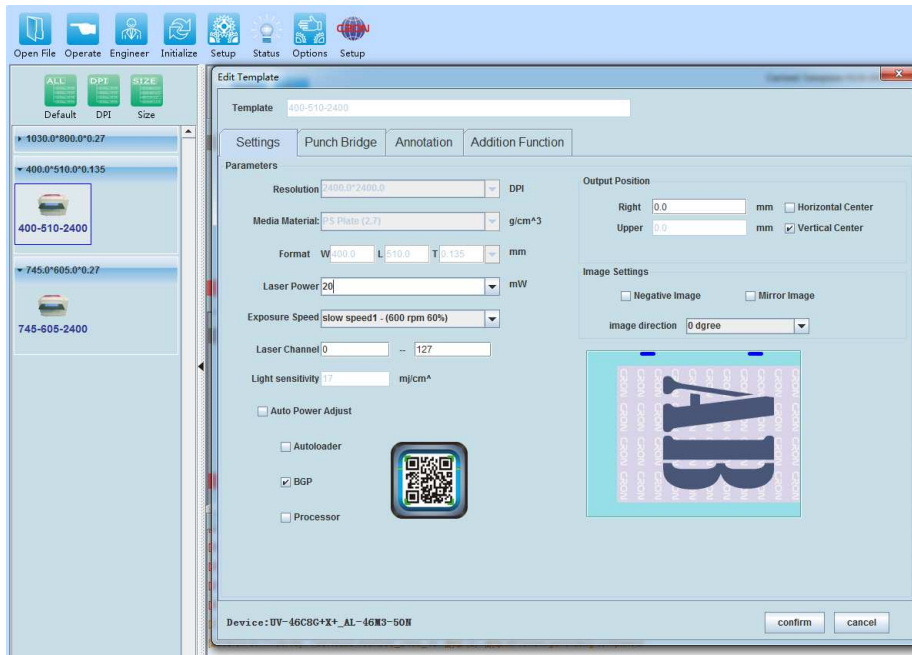
5.4 Autoloader common setup in Options

- Open LaBoo 5.x software, in the main interface screen, click on the "Options" button to display options settings for Autoloader configurations.
- Setup and assign templates (plate size) created for each Autoloader cassettes, apply appropriate level of air blowing and paper suction strength for slip paper separation (with Lo, Mid, Hi mode).
- Lower section indicates the Autoloader model and connection status.

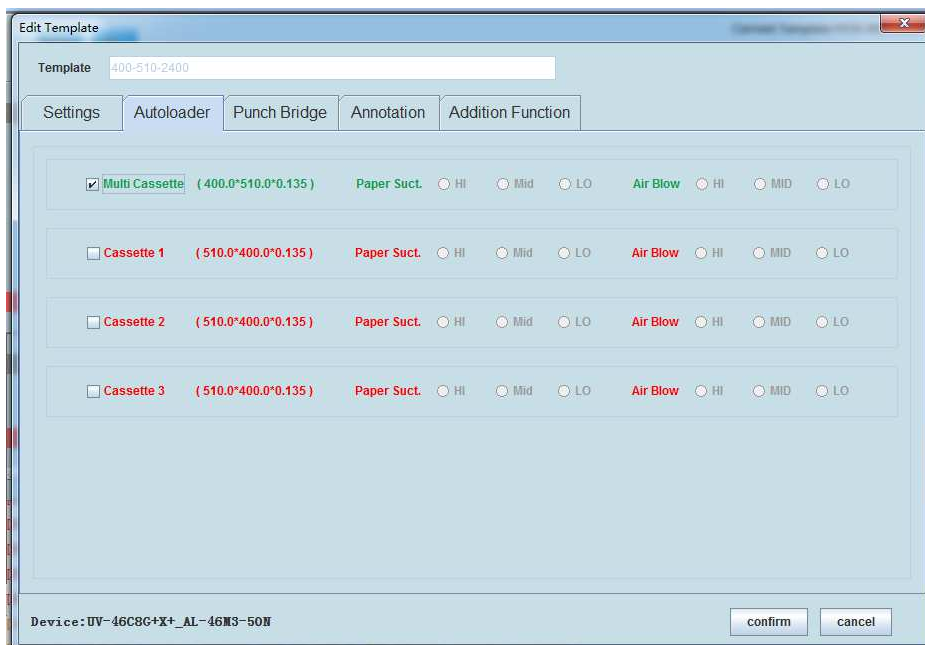


5.5 Autoloader settings in Templates

- Double-click on the current template to edit the working template information. To enable Autoloader, you must tick on the “Autoloader” box for the host CTP device.
- Selection box of Autoloader can also be set in the job file’s template, but this will only applicable to the particular job file being selected. It is best recommended to set it in the standard Templates on the left side of the software.



- Under the “Autoloader” tab for plate cassette trays selections and settings, note that the selected media parameters need to be consistent with the media parameters set by the template.



5.6 Plates placing on Cassette Trays

5.6.1 Manually raise up the Autoloader top daylight shield(top cover);

5.6.2 Release or lower level lock for Autoloader cassette trays;

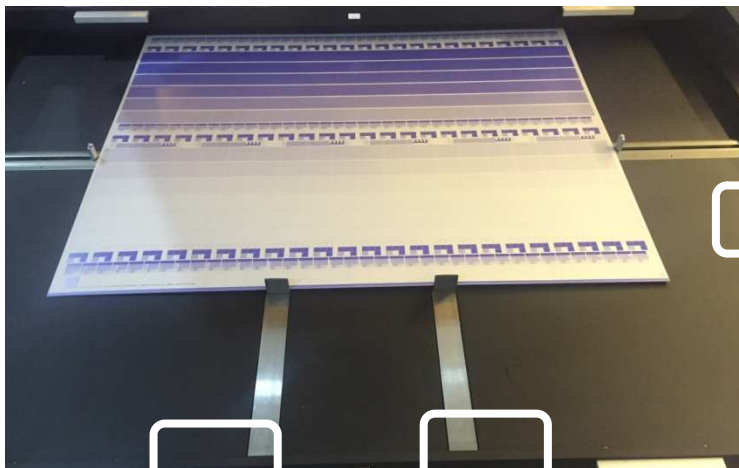
5.6.3 According to the size of the plat , select the cassette tray to be placed, press the corresponding tray number button on the right cover (as shown in Figure 6-1), the cassette tray support roller rises below the corresponding cassette position, so as to support the weight while plates are placed on the cassette tray.

The following is an example where the size of the 745*605 plate is placed on the 3rd cassette tray (C3). Press the "C3" button and the cassette support roller rises below to the 3rd cassette tray level.



5.6.4 Pull out the 3rd cassette tray to the outer maximum limit position. Rear section of tray(towards user) is rested on the cassette support roller.

5.6.5 Put a piece of plate (size of 745*605) on this cassette tray, make sure plate front reached the front end of tray firmly, move the left- right baffles to center the plate on the cassette tray, and move back the baffle about 1mm away from the side of the plate.



5.6.6 Push back the cassette tray (C3) into the autoloader and press the C3 button to retract the cassette tray lower support roller to its home position.

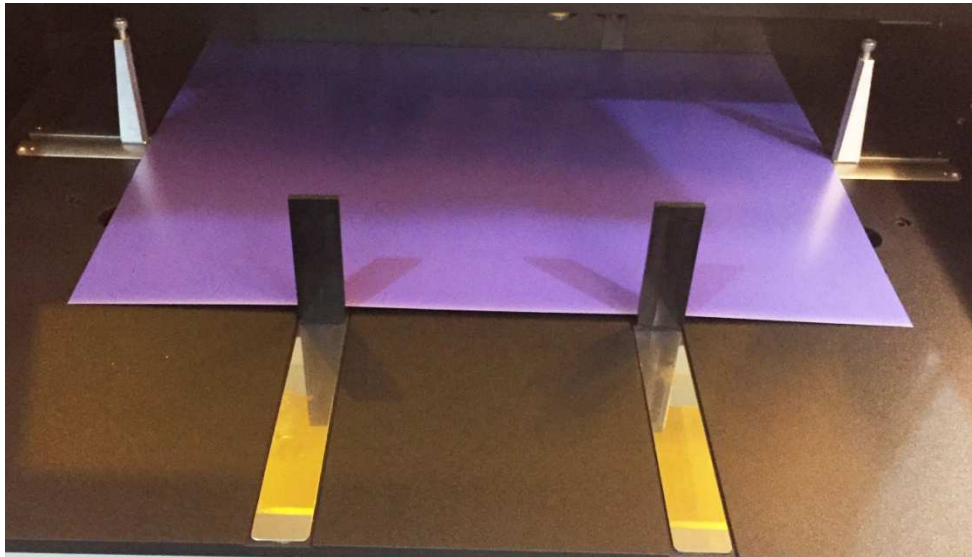
Refer to the above steps, after placing plates into their respective cassette trays, secure or lock the cassette trays, lower down the daylight protection cover of the Autoloader, execute Template Uploads with LaBoo software, and will be ready for plate output process.

5.7 Plates placing on high-capacity Series

5.7.1 Manually raise up the Autoloader top daylight shield(top cover);

5.7.2 Release or lower level lock for Autoloader cassette trays;

5.6.b.3 Put the plate 745*605 on the cassettes tray, push it to the end, move left and right block to set the plate to middle, finally, move the left and right block 1mm away from the plate side



Manually Close the Autoloader top daylight shield(top cover)。

Note:

- a) Plate media surface with emulsion should face up while placing them on the cassette tray
- b) Avoid bare hands while placing or handling plate.
- c) On an Autoloader unit, if there is a strong static charged between the plate material and the slip paper, it is necessary to do pre-discharge treatment on the such plate material, otherwise it may affect the slip paper removal or plate output on Autoloader and CTP device;
- d) Plate media trimming/cutting must be flat and smooth, with no flanging or burrs. Else this may cause scratches on plate, and may also affect the entire operation of the plate feeding on Autoloader unit or CTP device normal operation.

5.7 Outputting File:

Click on "Single Output" (if multiple files can be selected "Continuous Output"), the LaBoosoftware will automatically runs the whole complete works on Autoloader for plate feeding ---- CTP plate mounting ----- plate exposing/imaging ----- plate unloading processes.



5.8 Autoloader Commands interface

a) Sent Plate:

Plate placed in the Autoloader cassette will be pick up by Autoloader, and will be sent or feed it into the plate entrance of the host CTP device. If slip paper was detected during pickup, it will bedispensed or removed (conveyed to lower section of the Slip Paper Collector unit of the Autoloader device).

b) Retract Plate:

Retract or remove the plate that's already sent to the plate entrance of host CTP device, back to the Autoloader plate. May need to manually place or align again the retracted plate on the cassette tray.

c) Cassettes Descend:

To have the Autoloader cassettes trays released and returned to the lowest platform (home position) for plates replenishing on trays.

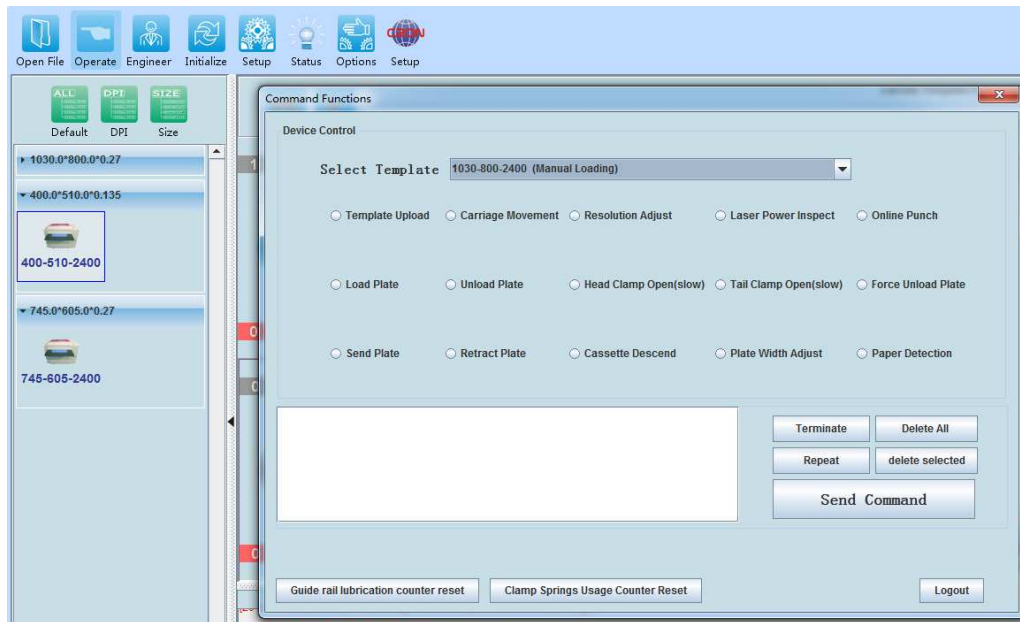
d) Plate Width Adjust:

Readjust/reset the nozzle level, nozzle angle according to the current Template used and ready for working condition

e) Paper Detection:

The nozzle suction arm will be lowered down to the working position and RGB paper detection sensor will be reset to identify the slip paper color (Slip paper should be placed on top of plate while running this command for paper/plate sensor adjustment/reset).

Operation Instructions



Chapter 6: Autoloader Maintenance

For optimum performance and productivity, regular maintenance and services are required to be carried out on the device. The following are recommended maintenance cycles and details to be noted (Inappropriate handling not according to recommendation may affect device performance and even damage the machine). Maintenance is divided into routine maintenance and regular maintenance. The device must be operated under standard environment requirement as stated according in the 《User Manual》.



Attention: Power must be turned off to ensure safety during maintenance.

Surface cleaning manners and precautions:

While cleaning device surface, first used a vacuum cleaner to clean dusts on the machine casings, seams and accumulated dusts on plate loading platform. If the indoor air is dry and clean, and the machine is often being cleaned, just use dry cloth to wipe and remove the dust from the surface; For thoroughly cleaning, wipe with a damp cloth mixed with mild cleanser and clean with a damp cloth with detergent until it is cleaned and dried.



Attention: Do not spill or leak water or detergent into the device, this could cause hazardous to operator or damage the machine.

Important: Strongly recommended that the following maintenance should be carried out by a trained engineer or under the direction of a CRON qualified engineer.

6.1 Daily Maintenance

Device daily maintenance list

Item	Maintenance details	Daily Maintenance	Regularly Replacement
Autoloader external casing		Wipe/clean daily	
Cassette trays surface		Wipe/clean daily	

Note: Recommended timeline is based on the device is installed complied to standard environment requirement stated in the “Installation Guide”.

Device Inspection

Autoloader device inspection list:

Item	Daily Inspection	Record	Remark
Ambient temperature	Daily		
environment humidity	Daily		
Vacuum pressure	Daily		
Abnormal sound during equipment operation	Daily		

6.2 Periodical Maintenance

Clean the interior area of the Autoloader once a month.

Remove the upper cover of the Autoloader, clean the plate convey rollers, platen roller, Movable suction nozzle, bearing, chute, put back top cover after cleaned.



Figure7-1,Autoloader plate convey section

Regularly lubrication

Lubricate the Autoloader once every 6 months. Lubricate parts include: gear transmission parts, worm gear parts, shafts etc.

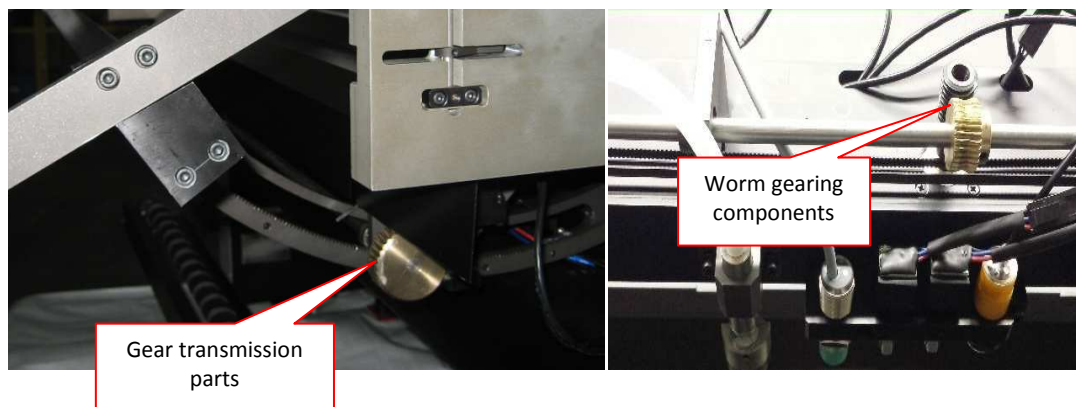




Figure7-2,Other parts requires regular lubrication on Autoloader

Air pump filter and electronic drain valve filter

Air pump filter and the electronic drain valve filter need to be cleaned once every 6 months to maintain air flow is smooth.

Chapter 7: Abnormal Problems Analysis and Handling



Attention!

- Before proceeds for HDI device inspection and hardware handling, please wait for at least 5 minutes after power turned off to avoid electrical shock.
- Device inspection, diagnostic, handling and replacement of parts components should be only conducted by well trained and qualified technical personnel appointed by CRON.
- Technical personnel involve in diagnostic and troubleshooting works should remove all metal items from body before carry out the works. Use the insulating tools to avoid electrical shock and precautions of injury.

7.1 Abnormal Startup

When encountered Autoloader starts up abnormal (unable to connect to Autoloader, or Autoloader not functioning), please refer Figure7-1Autoloader startup abnormal analysis flow for further troubleshooting.

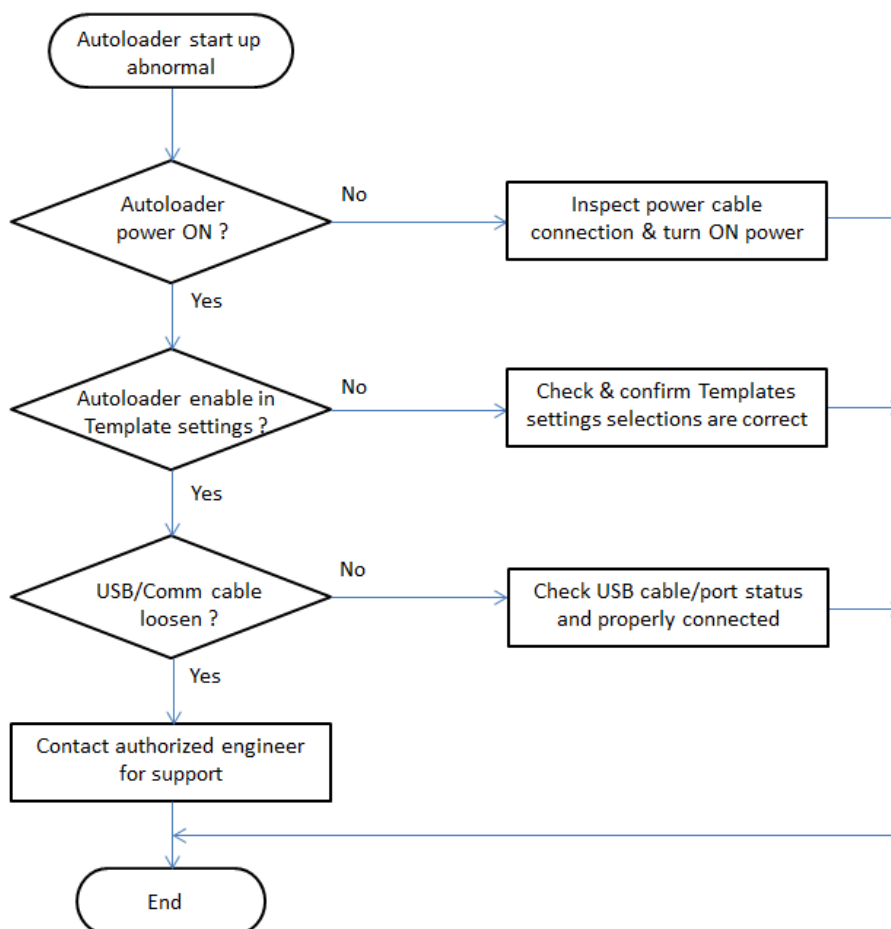


Figure7-1,Autoloader startup abnormal analysis flow

7.2 Abnormal Plate/Paper Suction

If Autoloader is having plate or paper suction abnormally, please refer to below Figure 7-2, Autoloader Plate/Paper suction abnormal analysis flow for further troubleshooting.

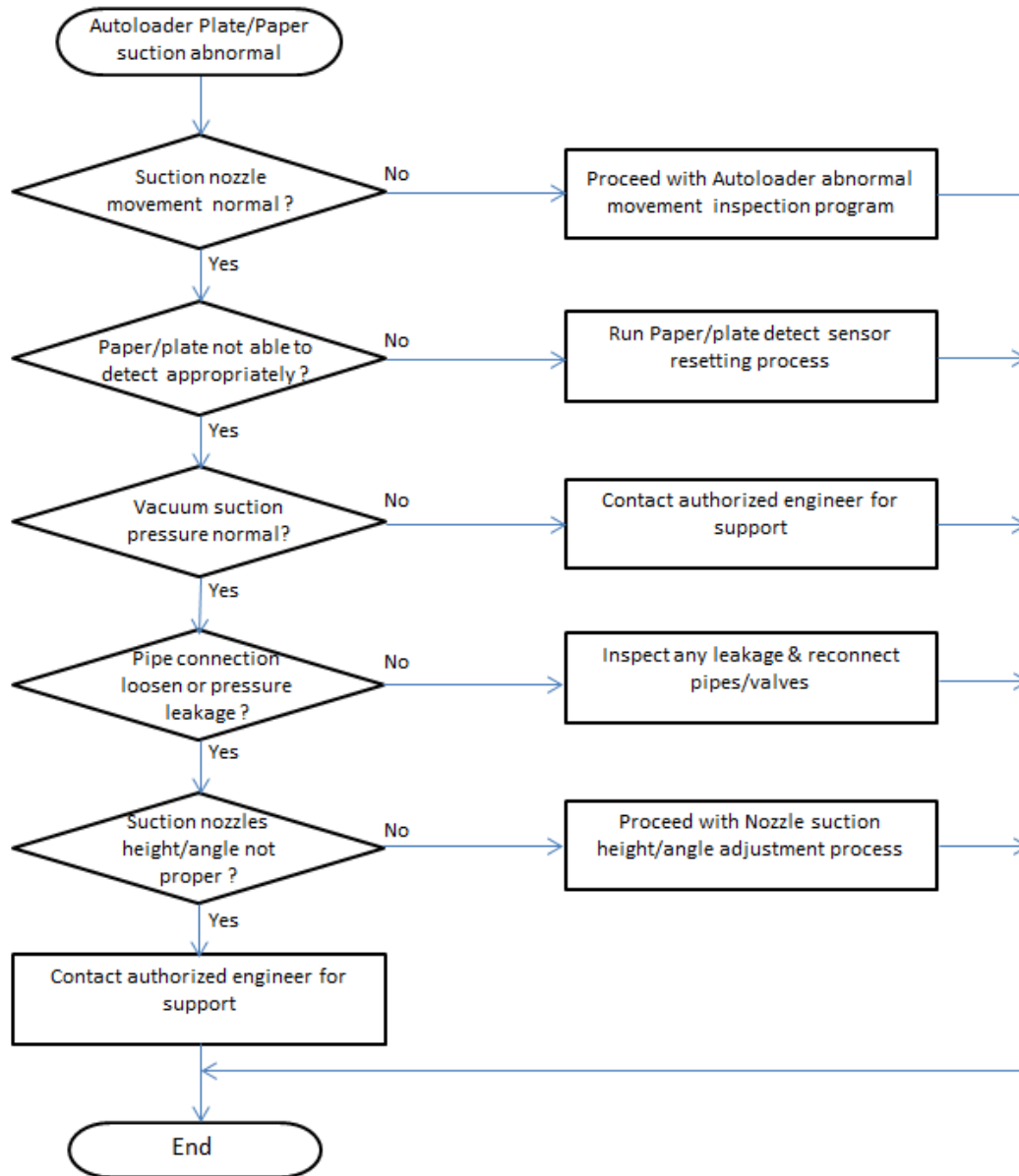


Figure7-2 Autoloader Plate/Paper suction abnormal analysis flow

7.3 Abnormal Plate Feeding

When encountered abnormal plate feeding in Autoloader unit, please refer to Figure7-3,for Autoloader abnormal plate feeding analysis flowfor further troubleshooting.

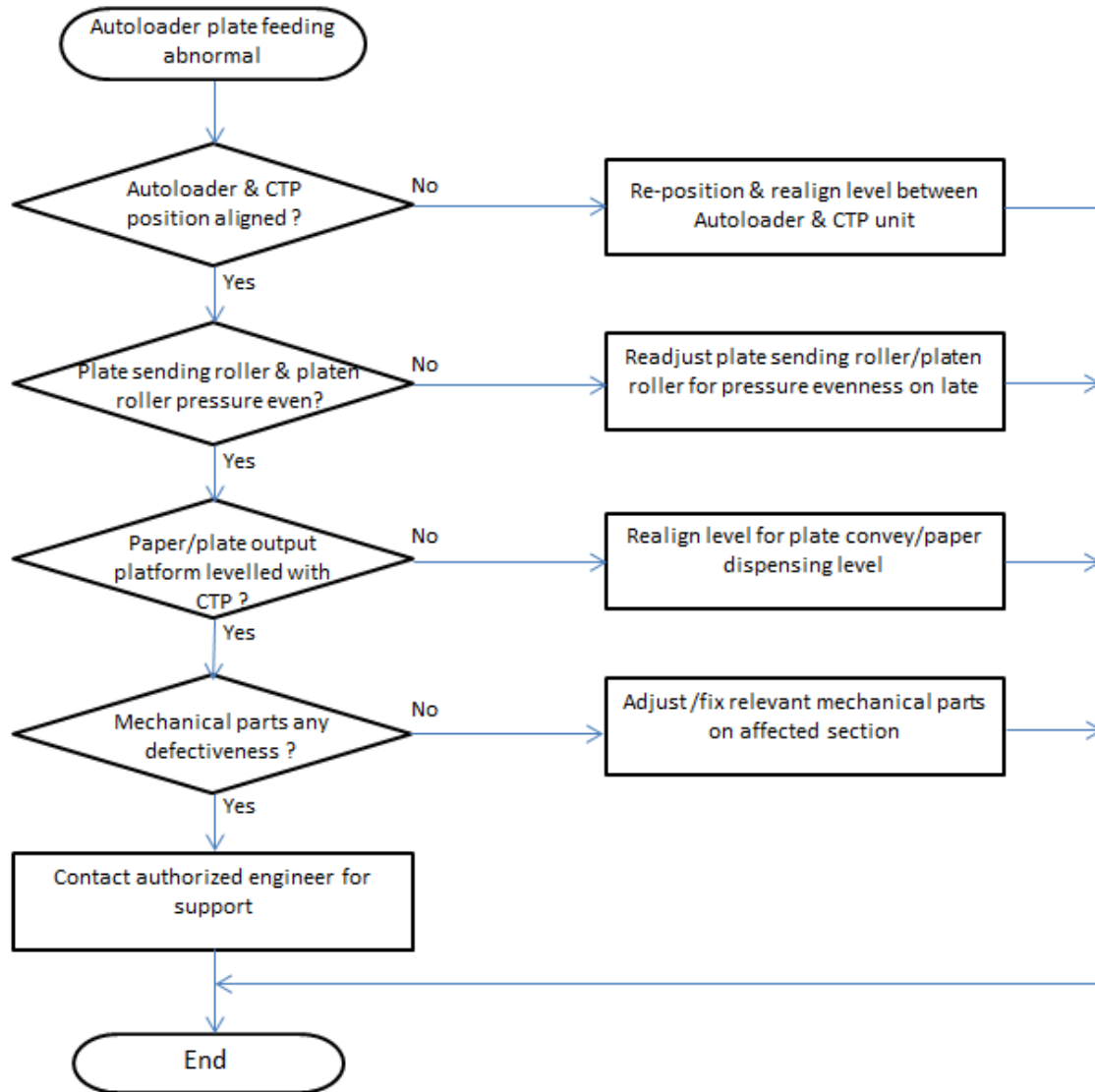


Figure 7-3, aabnormal plate feeding analysis flow for Autoloader

7.4 Abnormal Paper Removal

When Autoloader not able to dispense the slip paper during plate feeding, please refer to Figure 7-4, for Abnormal slip paper dispenses analysis flow for Autoloader.

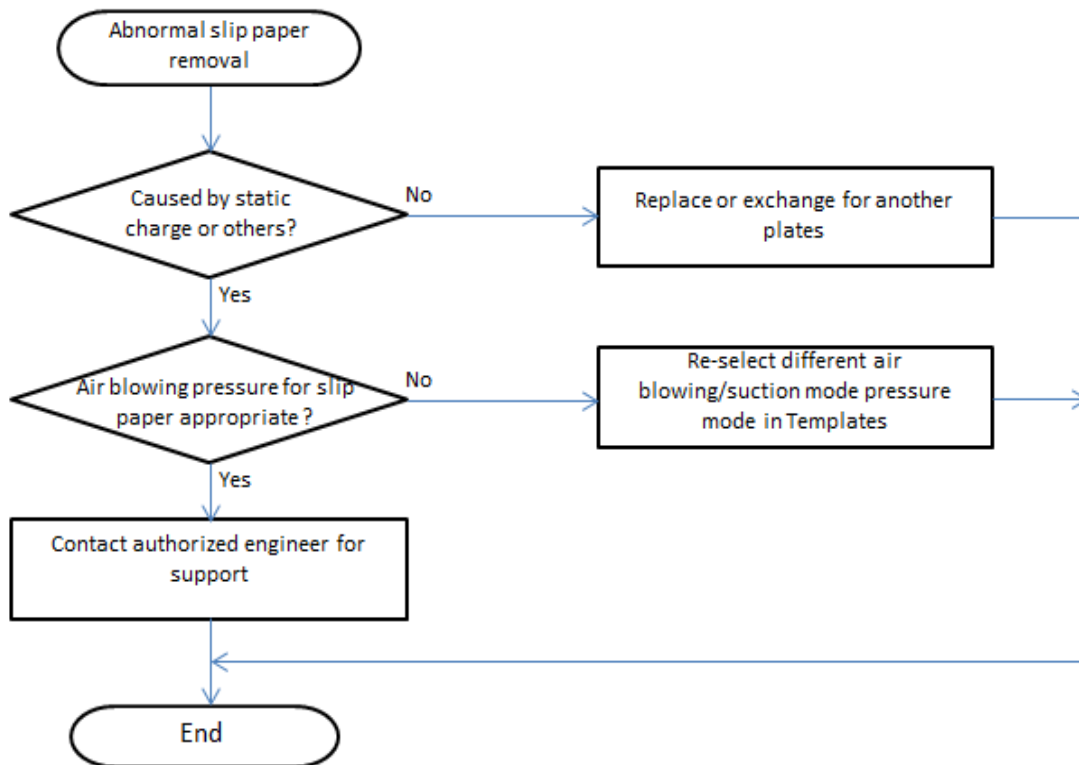


Figure7-4 Abnormal slip paper dispensing analysis flow for Autoloader

7.5 Other Abnormalities

For other abnormalities, please refer to Figure 7-5: Other abnormal situation analysis and processing flow chart for the Autoloader;

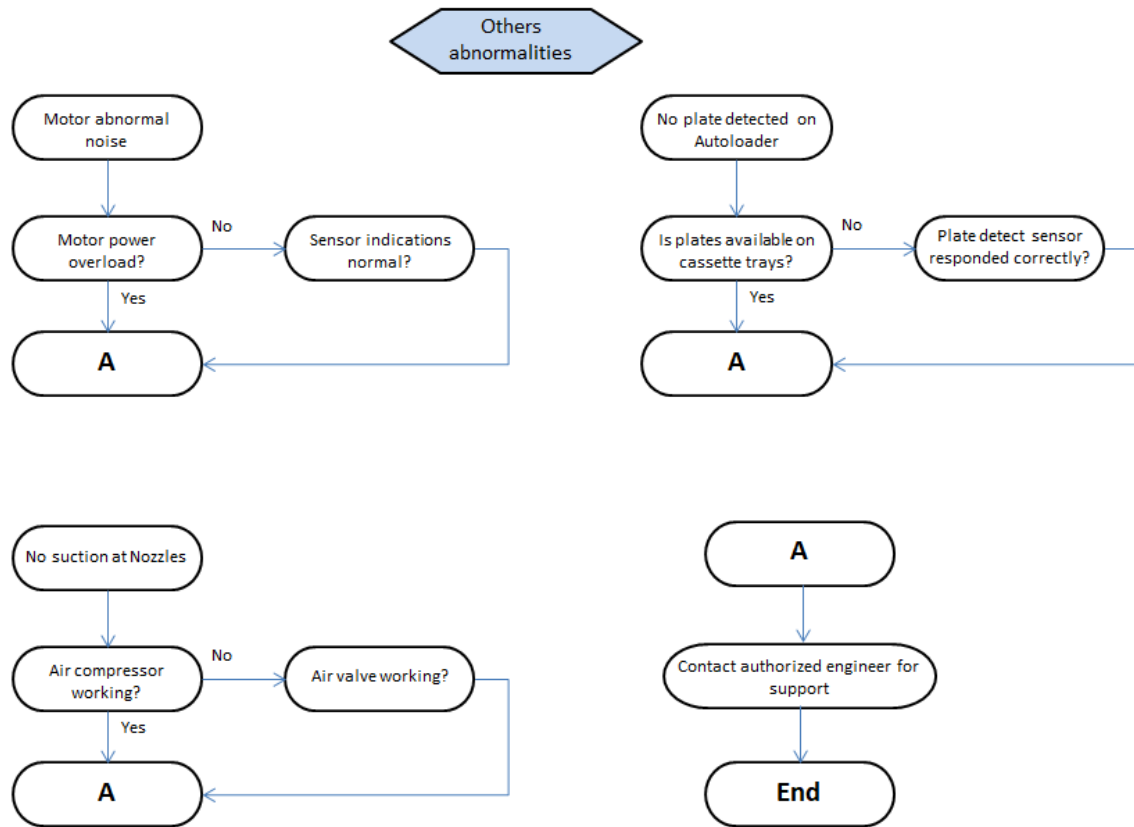
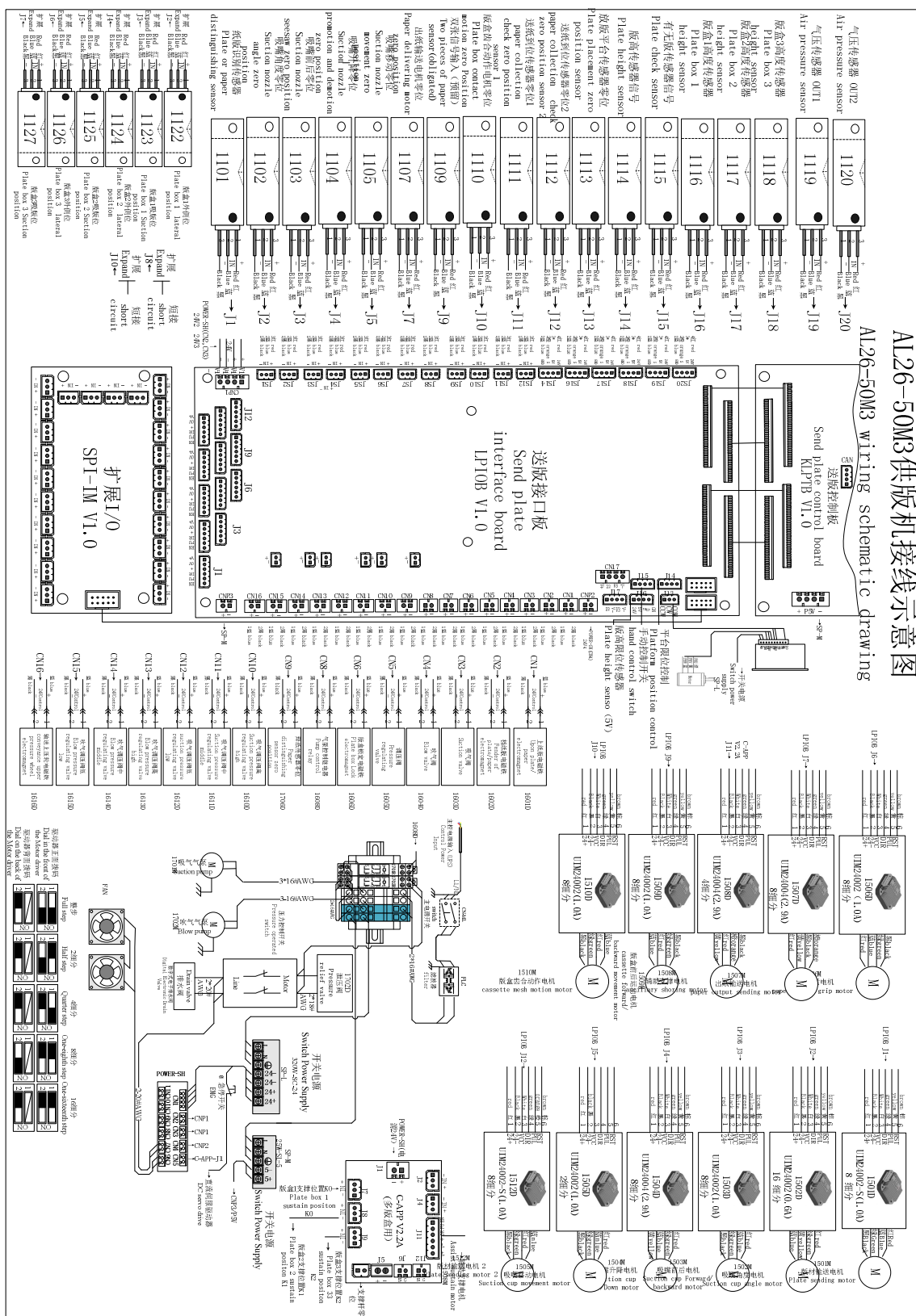


Figure7-5Other Autoloader abnormalities issue analysis flow.

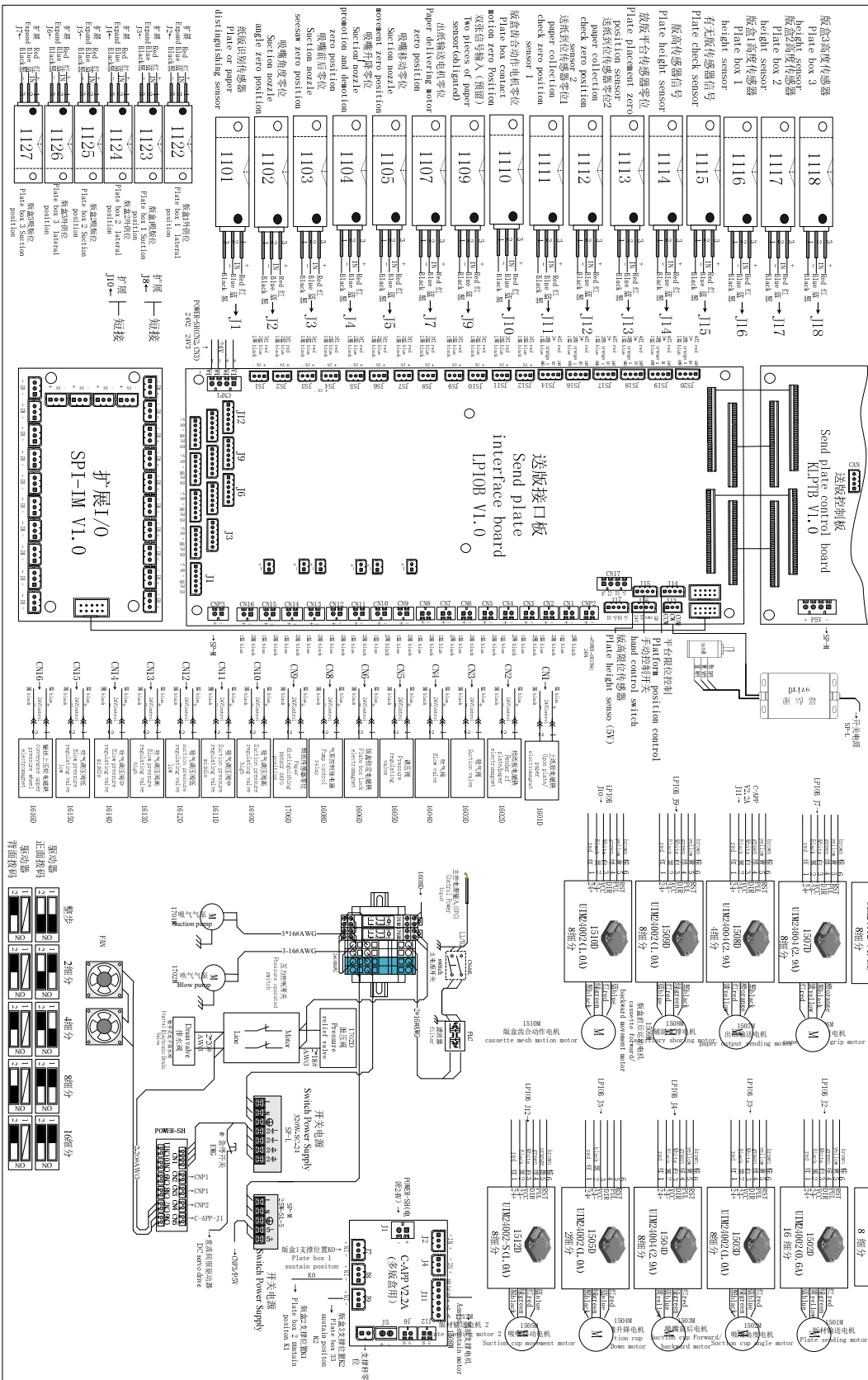
Chapter 8:Appendixes- wiring diagram

AL26-50M3 供版机接线示意图

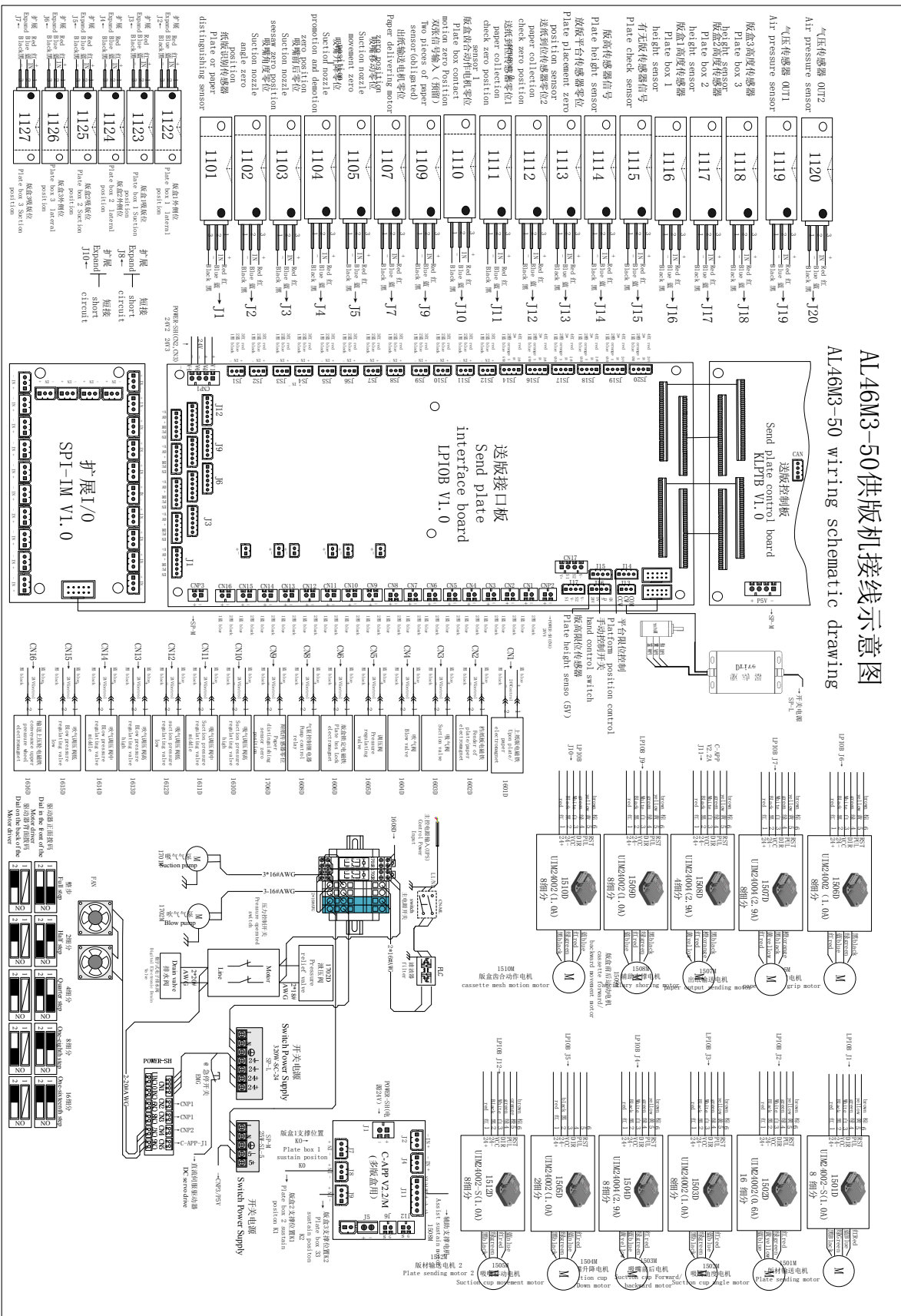


AL36M3-50全自动供版机

接线示意图



AL46M3-50 供版机接线示意图



接线示意图

