

ASTA-1030 Series Machine

Maintenance Manual

type :

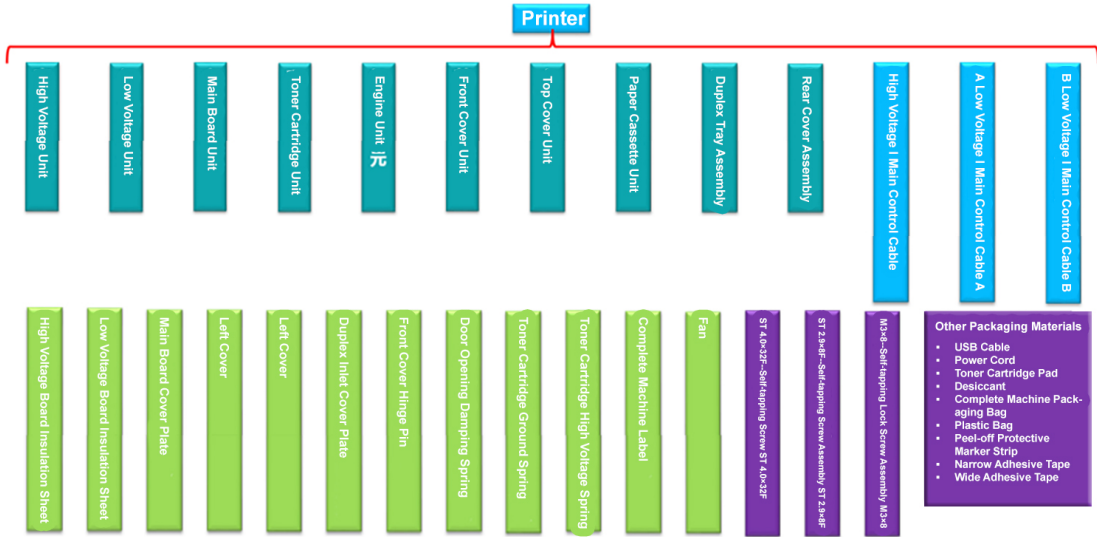
AS-MFP1030DNW/AS-P1030DN

1. summary

1.1 The Table Below Compares the Functions of the Various Models Described in This Maintenance Manual.

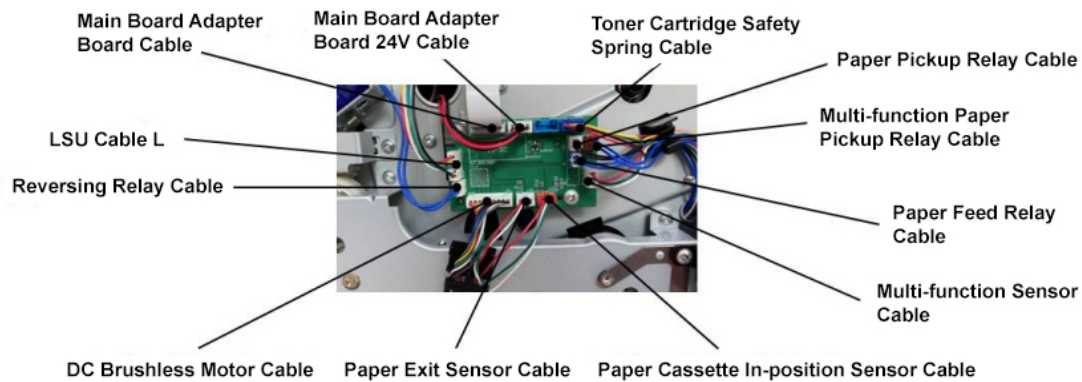
Type	AS-P1030DN	AS-MFP1030DNW
Wireless	○	●
Display Language	Chinese, English	Chinese, English
Platform	Windows、 Mac、 Linux	Windows、 Mac、 Linux
Low power consumption	●	○
LCD	Duplicate rows	2.8 Color Screen
Multi-functional Cardbo- ard Box	1 page	1 page
Print Speed	32ppm	32ppm

1.2 The Main Components of the Product Are Shown in the Figure Below:

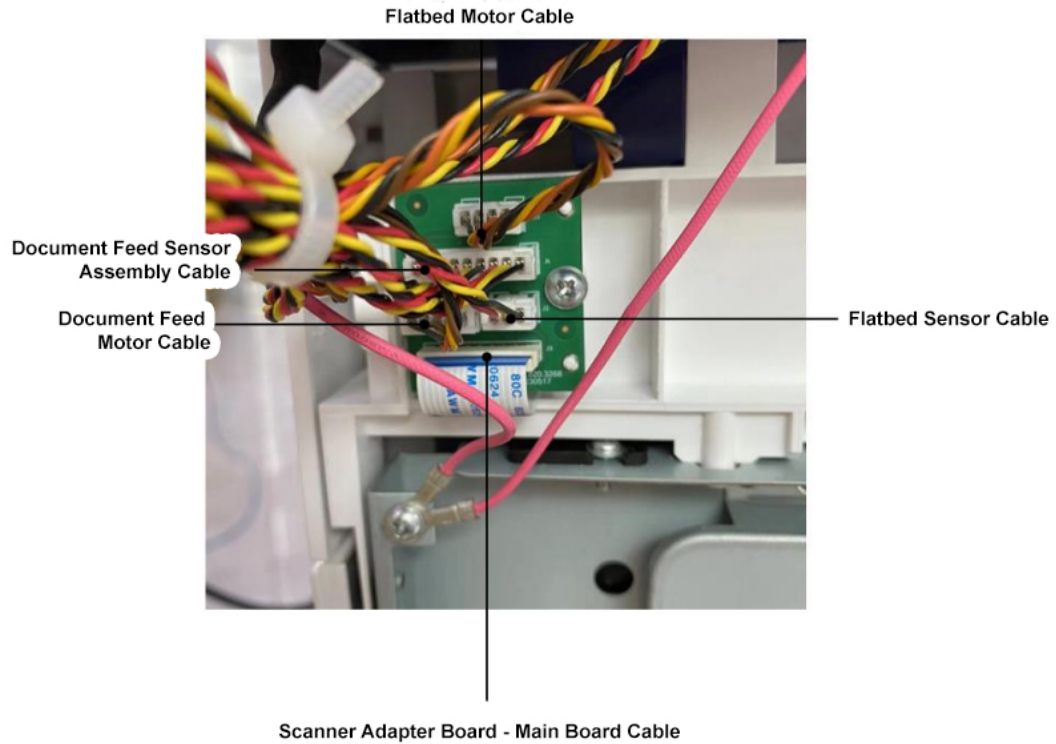




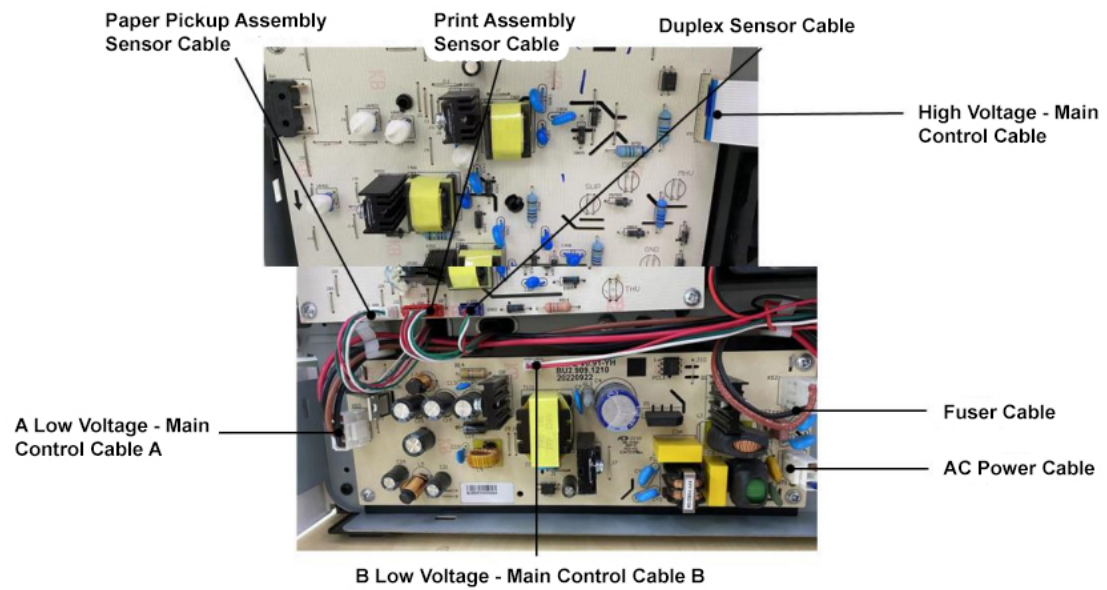
1.3 The product's power connection path is shown below: Left side of the product: Print adapter board



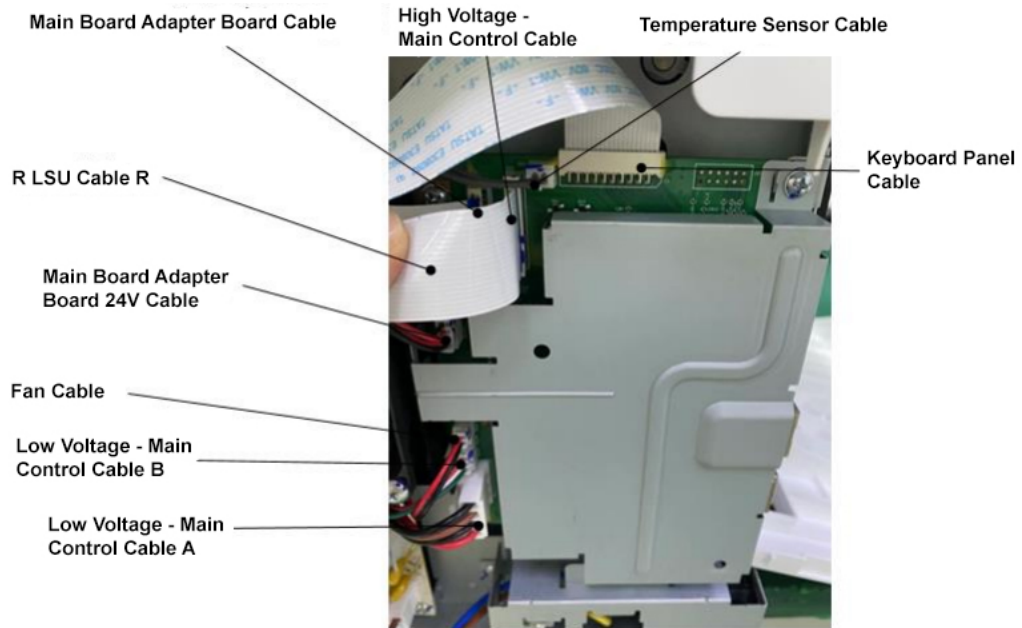
Left side of the product: Scan adapter board (all-in-one unit)



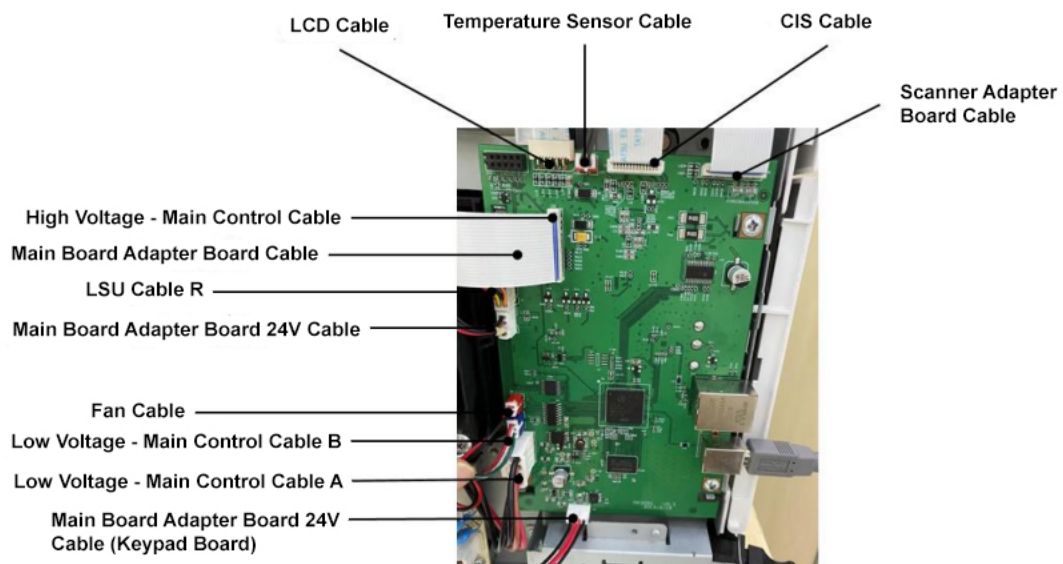
Right side of the product: High-pressure plate, Low-pressure plate



Right side of the product: Main Board (Printer)



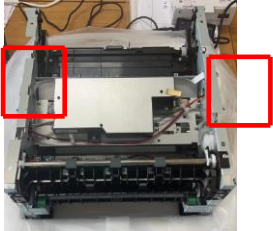
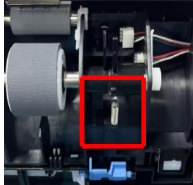
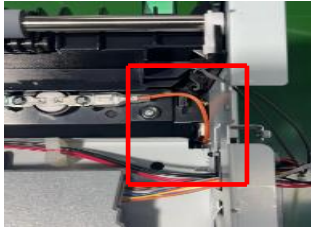
Right side of the product: Main board (all-in-one unit)

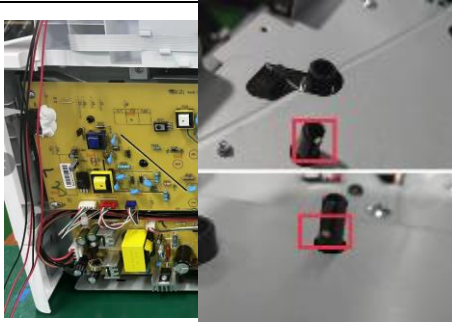


2. Assembly Notes

Before assembling the entire unit, confirm the following items as shown in the table below.

Order number	Assembly	Work Instructions	Picture	Note Description
1	Paper Chamber Unit	Check whether the paper tray's page-turning rubber pad is floating.		Replace the secondary page division component of the paper cartridge
2	Top Cover Unit	① Check whether the discharge spring at the paper outlet is deformed or has shifted out of position relative to the upper cover's securing claw. ② Check whether the FFC connector on the top cover is loose.		If the deformation occurs, secure it in place; apply conductive oil to the discharge spring of the paper outlet. If the cable connector has detached, re-insert it properly
3	Watch Movement Unit	When opening the watch case packaging, check whether there are any white polystyrene foam fragments inside.		When debris remains, use an air gun for dust removal.

4	Watch Unit	Movement	When removing the movement unit, wear gloves to prevent the side plates from scratching your hands.		
5	Watch Unit	Movement	Check whether the paper ejection sensor spring has come loose		If the spring is missing, reinstall it.
6	Watch Unit	Movement	Check whether the halogen lamp cable has fallen out of its clip		If the connecting line detaches, reattach it
7	Watch Unit	Movement	Has the paper tray sensor fallen out?		If it falls out, reinstall it properly

8	Watch Unit Movement	The multi-functional paper feed rubber pad has risen.		Replace the multi-functional page holder assembly
9	Overall unit	Recommended torque for sheet metal nuts: 0.6 N·m; recommended torque for plastic screws on the main board: 0.4 N·m; use a manual screwdriver for locking.		The torque of the fixing screws for the high-voltage board, low-voltage board, and main board needs to be adjusted and locked.
10	Front Cover Unit	Press the front cover lock to check for any abnormal noise during operation and ensure the pawl returns to its normal position.		If abnormal noise is detected, apply grease on the outer side of the mounting column of the right pawl; if the pawl exhibits abnormal rebound, inspect whether the spring and pawl are properly installed.

3. Error Display and Troubleshooting

The table below lists common errors and corresponding solutions. Follow the steps to resolve each issue.

Order number	Error Message	Measure
1	The safety compliance test did not meet the requirements.	Check whether the grounding wire connection is securely tightened.
2	Do not start the device	Check for reverse insertion in the connection cable; Check whether the low-voltage board-to-mainboard connection is properly inserted; replace the low-voltage board. Replace the motherboard
3	The LCD screen does not display any text; only the backlight is on.	Check that the flat cable connecting the keyboard to the motherboard is properly inserted. Check if the flat cable between the keyboard board and the motherboard is damaged; replace the flat cable
4	Cannot detect the front cover	Check whether the flat cable connecting the high-voltage unit to the motherboard is properly inserted. Check whether the flat cable between the high-voltage unit and the motherboard is damaged; replace the flat cable. Replace the high-voltage board; Replace the motherboard
5	Cannot detect the rear cover	Replace the motherboard
6	Laser motor error	Check whether the 3-pin connections between the low-voltage board and the mainboard are properly inserted; verify that the flat cable connecting the adapter board to the mainboard is correctly installed; confirm that all left-side connections on the LSU board are properly connected and not miswired. Replace the left connecting wire of the LSU; Change the adapter board
7	Laser synchronization error	Check whether the 3-pin connections between the low-voltage board and the main board are properly inserted; verify that the right-side connections of the LSU are correctly installed without any misconnections. Replace the right-side connection line of the LSU; Replace the motherboard
8	Preheating error. Restart the printer	Check whether the wiring of the fixing halogen lamp is connected incorrectly; verify that the wiring of the temperature sensor is properly connected.
9	The cardboard box is not delivered.	Check whether the optocoupler at the left rear slide rail of the paper chamber is dislodged; verify that the wiring of the paper chamber position sensor is properly connected; replace the adapter board.
10	There is paper at the front of the mechanism. Check the paper tray.	Check whether the paper feed sensor rod spring is loose or defective; verify that the XS6 paper feed and print sensor wiring on the high-pressure plate side is properly connected.
11	Paper folding failed	Check: Component Test – Test the paper feed relay by verifying that its wiring is properly connected; replace the paper feed relay if necessary. Change the adapter board; Replace the paper roller assembly
12	The multifunctional paper feed sensor does not respond.	Check if the connection cable is properly inserted; Change the adapter board

13	Multifunctional device requires no paper	Check: Component Testing – Test the multi-paper relay to verify proper connection of the multifunction paper tray sensor wires; test the multifunction paper retrieval relay for functionality. Check whether the material used for the multi-function paper feeding driving gear is incorrect; replace the adapter plate.
14	Card paper inside; please remove the toner cartridge.	Check whether the paper guide bracket for fusing output is properly installed; verify that the fusing separation claws are correctly positioned. Check whether the paper sensor rod spring is missing or properly installed. Check whether the paper sensor responds; Check whether the paper sensor lead is properly connected at the optocoupler terminal. Check the rebound condition of the printing sensor rod; replace the spring in the printing sensor rod
15	There is paper on the back of the mechanism.	Check whether the paper sensor is properly installed. Check whether the paper sensor rod is properly installed. Check whether the paper sensor rod spring is missing or properly installed.
16	The mechanism does not return during double-sided printing.	Check: Component Test – <Backside Relay Test: Verify that the wiring of the reversing relay is properly connected; check if the spring leaf of the reversing relay has dislodged; verify that the screws securing the reversing relay are tightened; replace the transition board.
17	Print card paper	Check whether the paper sensor rod spring is properly installed.
18	Print without rubbing the paper	Check whether the paper feeding and printing sensor wiring on one side of the high-voltage board is properly connected.
19	Reverse paper jam	Check whether the reverse sensor wiring on one side of the high-voltage board is properly connected.
20	Print paper creases	Check whether the transfer discharge electrode sheet is properly installed; replace the transfer discharge electrode sheet.
21	Print in Full White	Check the grounding spring of the high-voltage plate
22	The image has low contrast intensity.	Check whether the springs on both sides of the transfer roller are properly installed; verify that the high-pressure plate is correctly mounted. Check whether the high-pressure spring is properly installed.
23	The image is darkened.	Change the high-voltage board
24	Image quality is poor.	Check whether the LSU glass is dirty; Check whether the flat cable between the high-voltage board and the main board is damaged.
25	Poor skewness	Check whether the paper chamber baffle is properly installed.
26	Abnormal noise occurs when printing.	Check whether the paper edge grounding spring is properly installed.
27	The multifunctional paper feeder produces abnormal noises.	Check whether the door damping spring is installed. Check whether the internal gear of the drive front cover rotates easily; replace the multi-functional paper retrieval spring.

4. Adjustments required after replacing the component

After replacing the motherboard,reflash the firmware to the latest version. Then perform engineering tests and complete shipping configurations.