

# **In**sight<sup>®</sup>

## **Service Manual**

**U120 Urine Analyzer**



**CONFIDENTIAL**

For Distributor Reference Only

# Content

**Part 1 General Information of U120**

**Part 2 Operating Instruction**

**Part 3 Check and Repair**

**Part 4 Spare Parts**

**Part 5 Error messages, possible reasons and troubleshooting**

**Part 6 Cleaning and Maintenance**

**Part 7 Language Chip Replacement Package Insert**

**Part 8 Detection Optimization**

# **1. General Information**

## **1.1 Instruction**

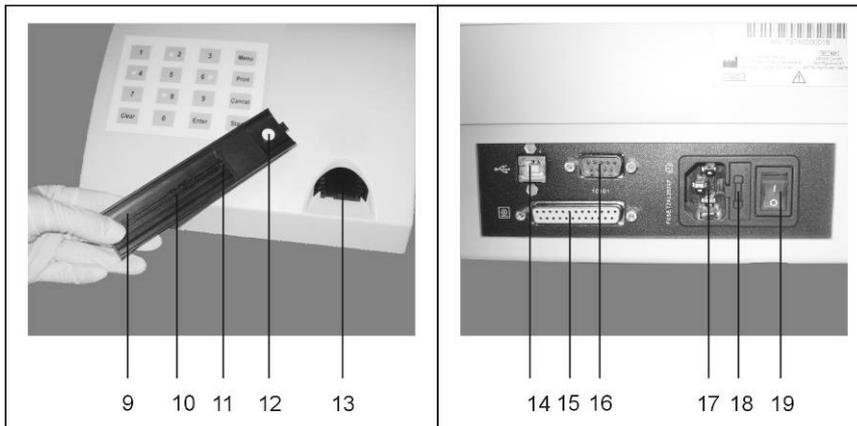
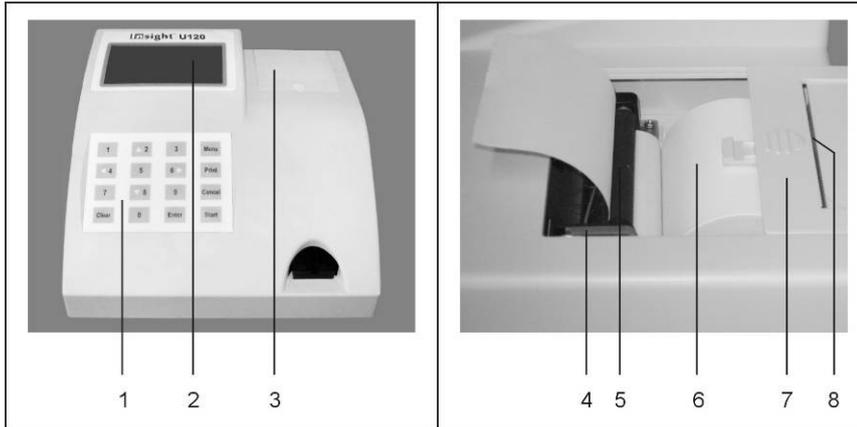
The U120 Urine Analyzer is a reflectance photometer that analyzes the intensity and color of light reflected from the reagent areas of a urinalysis reagent strip. The analyzer also prints testing results through the internal or external printer.

This service manual describes the control and repair of the U120. It is written for use by a well-trained service engineer, who is experienced in repairing and maintaining instruments for Diagnostic investigations.

The U120 is a precise, calibrated optical measurement system. The listed operations below must be accomplished with special attention and precision. Please take special care to disconnect the device from the power supply if this is required by the instruction. If spare parts or accessories are needed, it is absolutely necessary to use only original spare parts for this instrument.

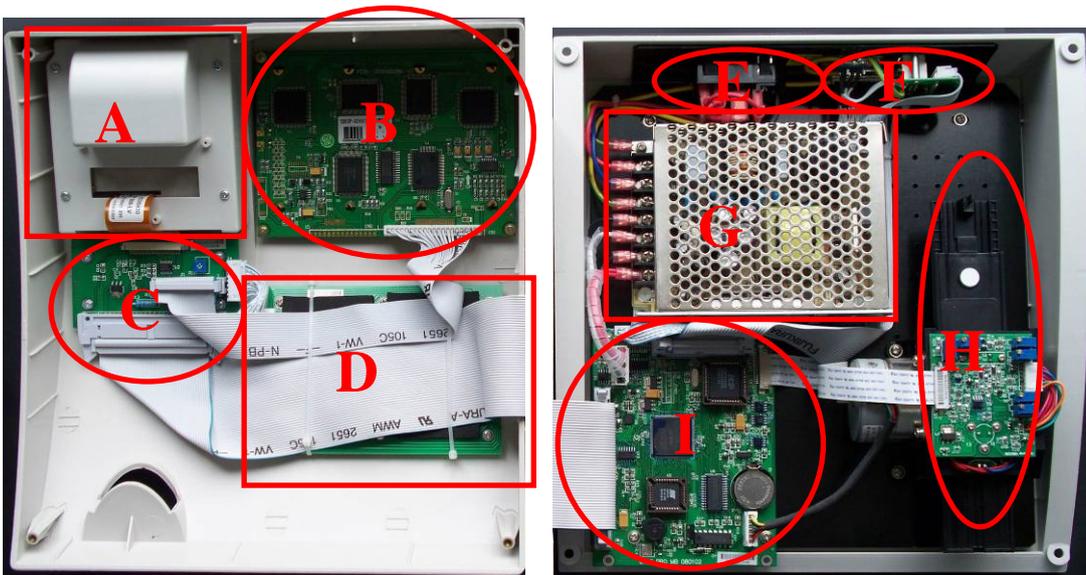
## 1.2 Components and Subassembly

- |                              |                              |
|------------------------------|------------------------------|
| 1. Keypad                    | 11. Strip Holder Stop        |
| 2. Liquid Crystal Display    | 12. White Calibration Circle |
| 3. Printer Cover             | 13. Strip Holder Mount       |
| 4. Paper Release Lever       | 14. USB Port                 |
| 5. Printer Roller            | 15. External Printer Port    |
| 6. Printer Paper             | 16. Standard RS232C Port     |
| 7. Printer Cover Pull        | 17. Power Socket             |
| 8. Printer Paper Access Slot | 18. Fuses                    |
| 9. Strip Holder              | 19. Power Switch             |

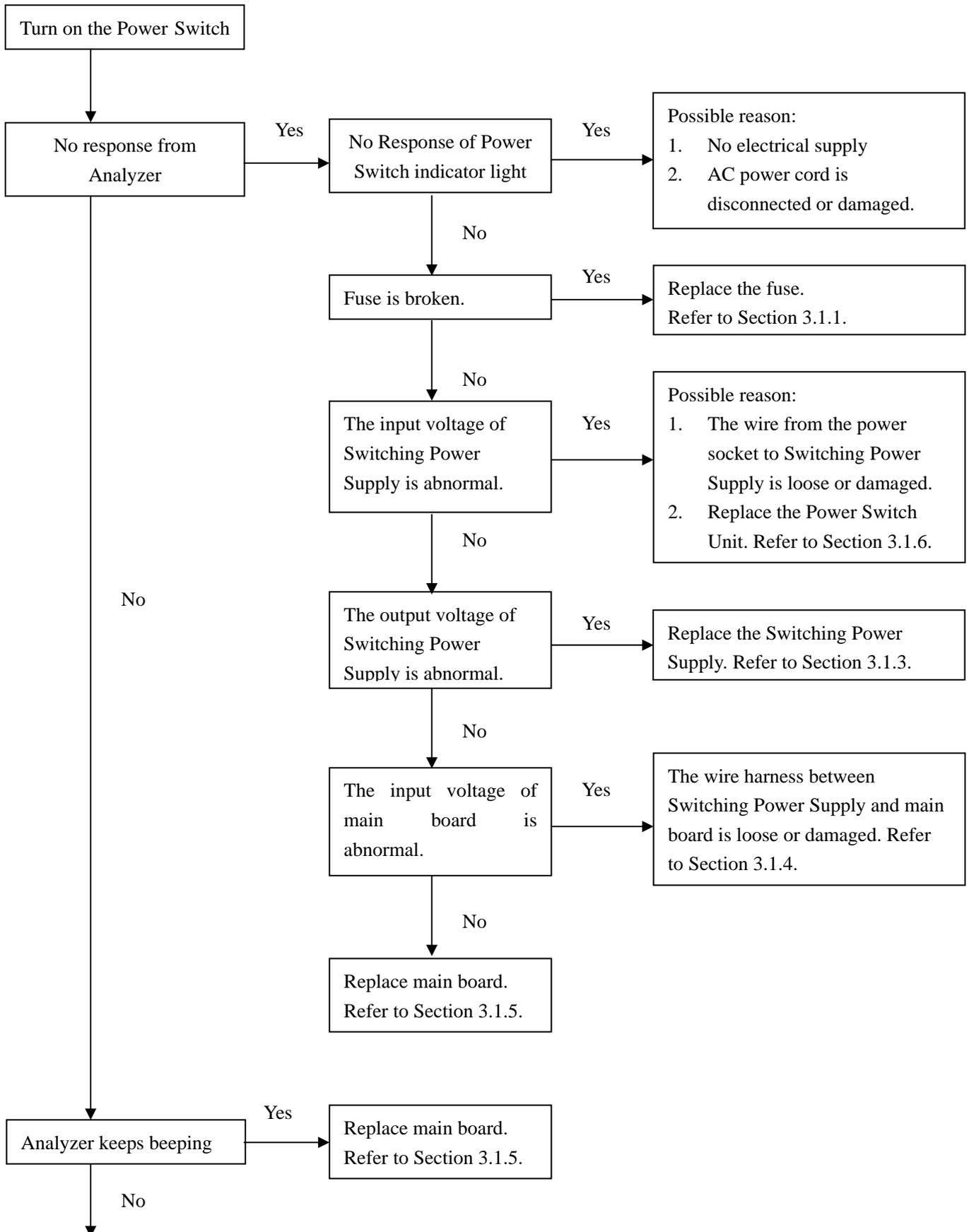


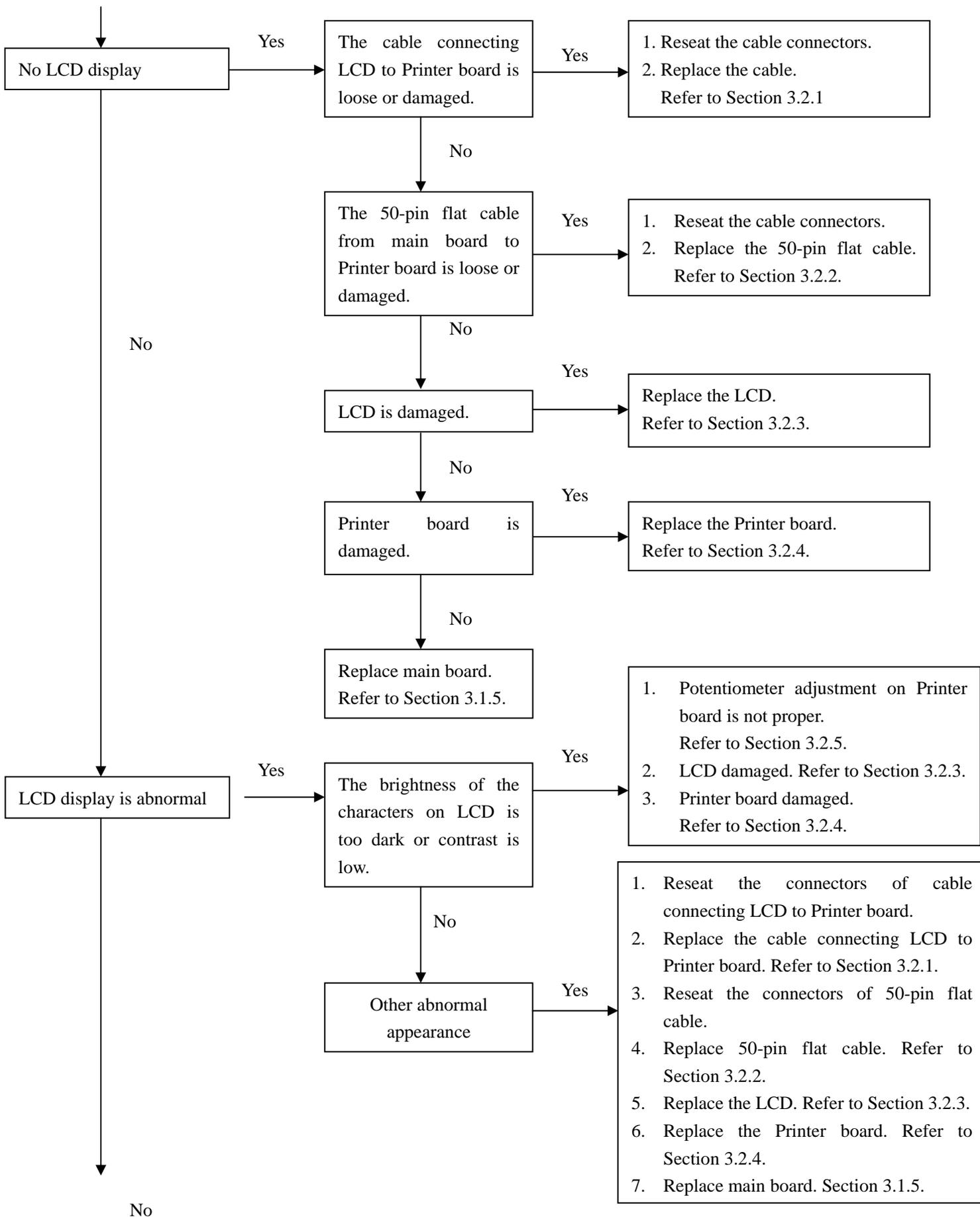
10. Strip Holder Channel

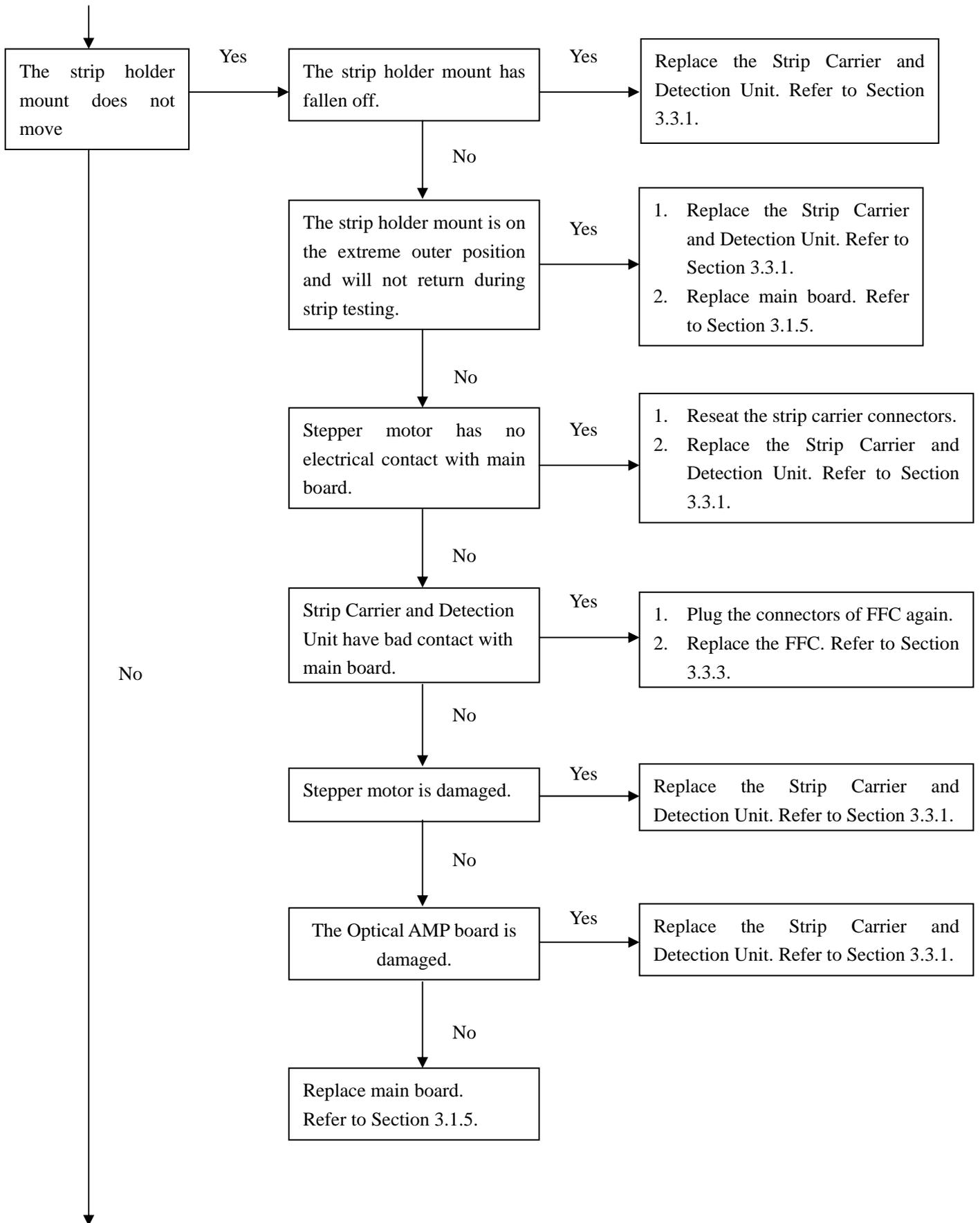
No.	Subassembly
A	Printer Unit
B	LCD
C	Printer board PCB
D	Keyboard
E	Power Switch Unit
F	Data Transfer Cable Unit
G	Switching Power Supply
H	Strip Carrier and Detection Unit
I	Main board

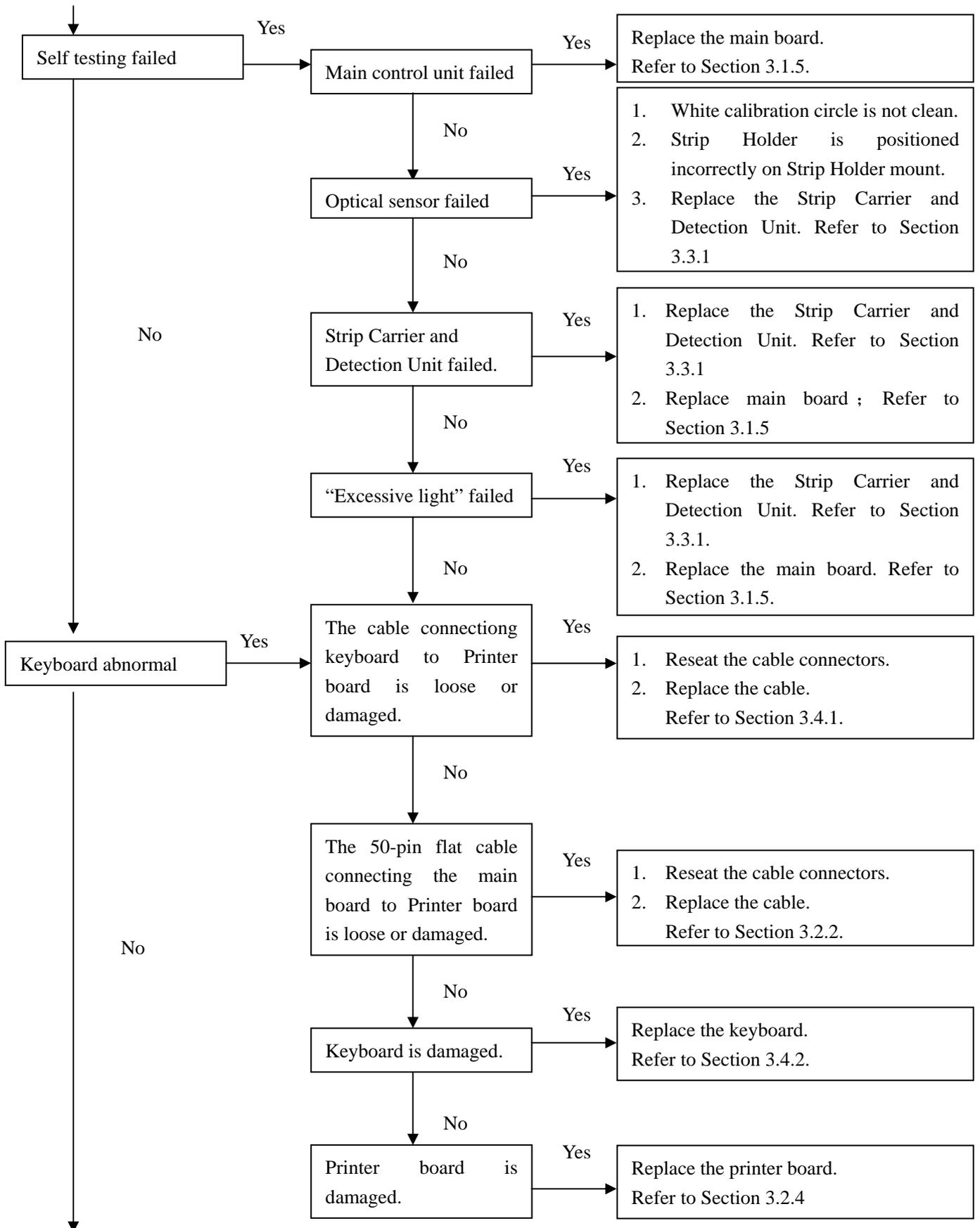


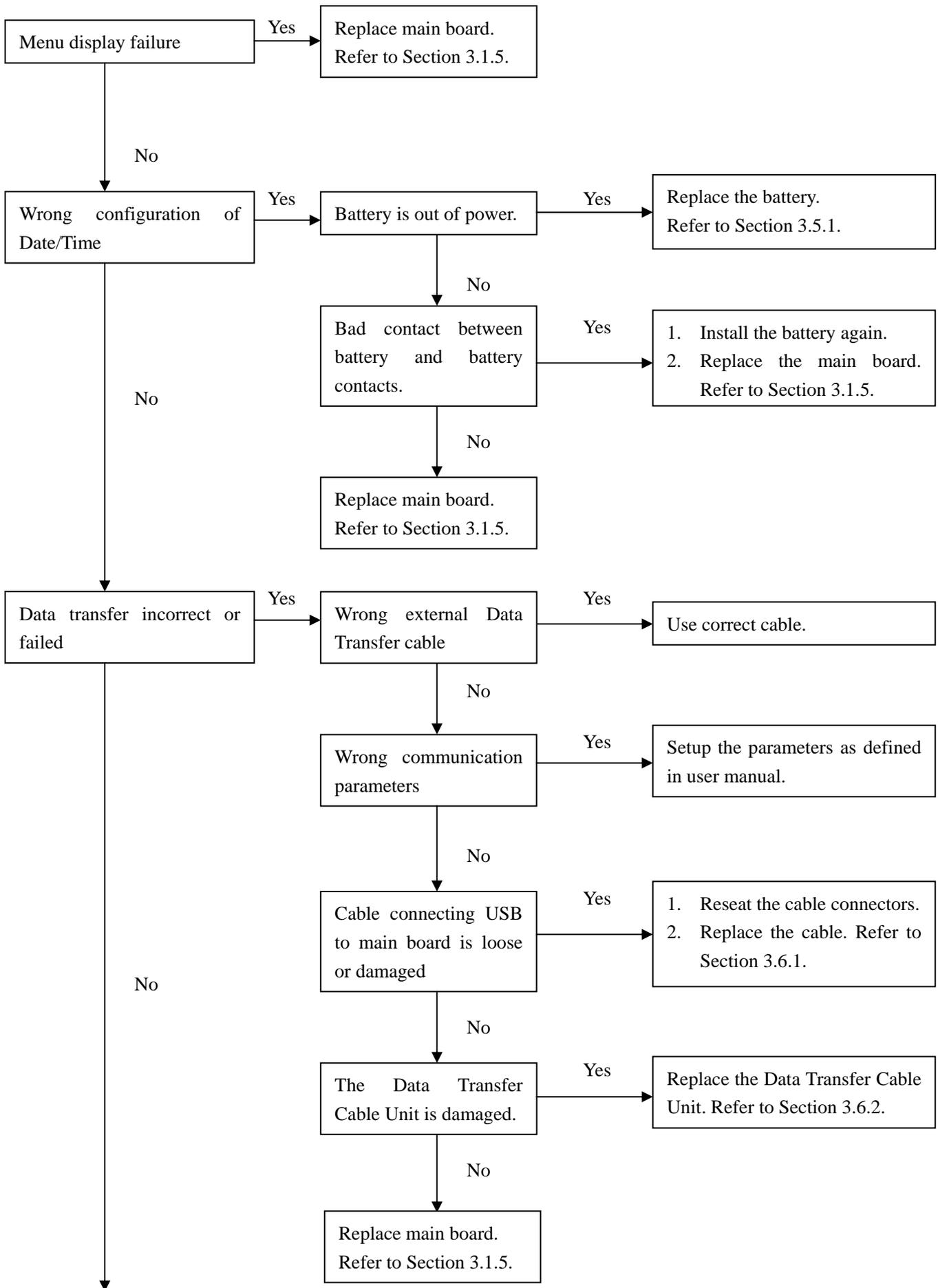
## 2 Operating instruction

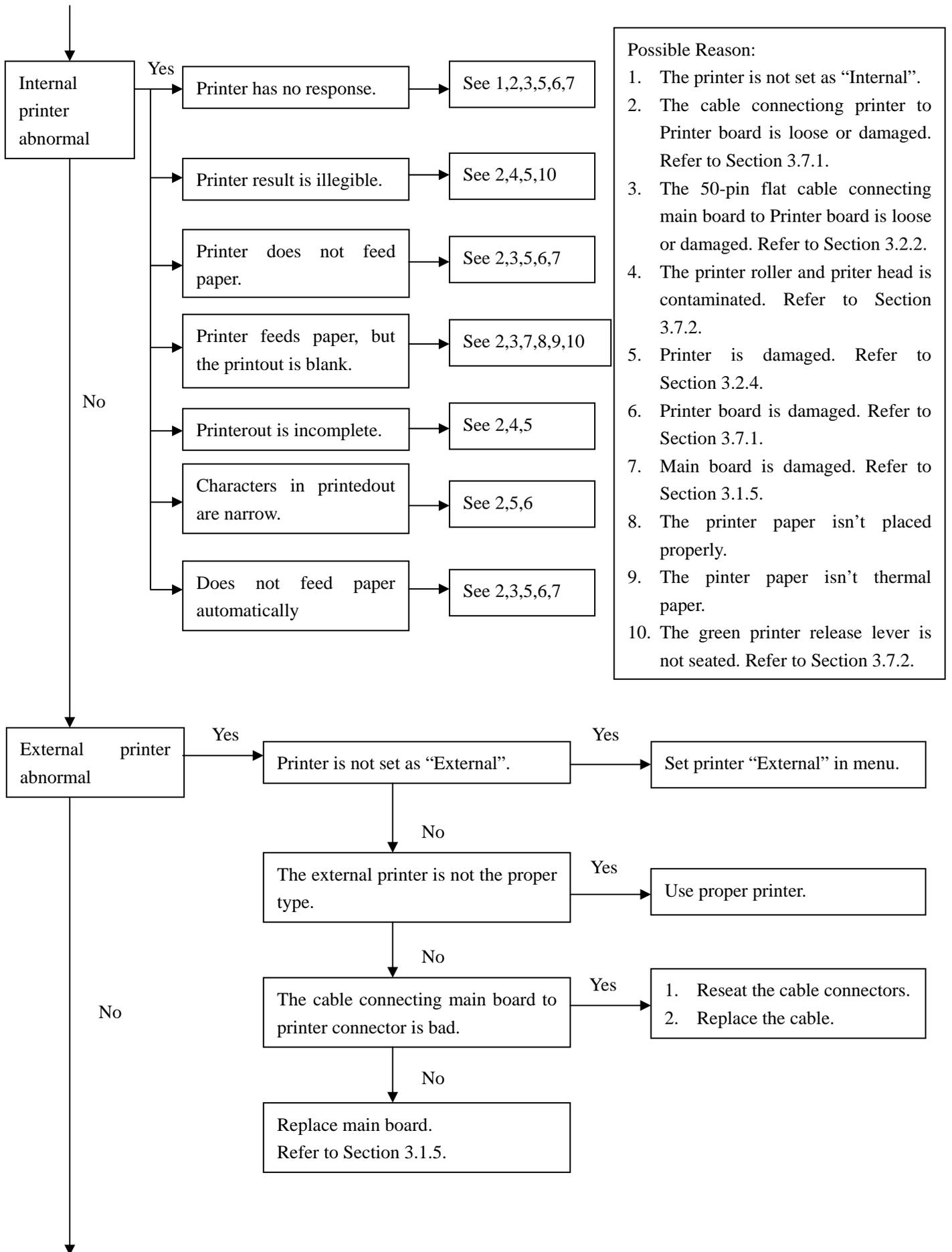


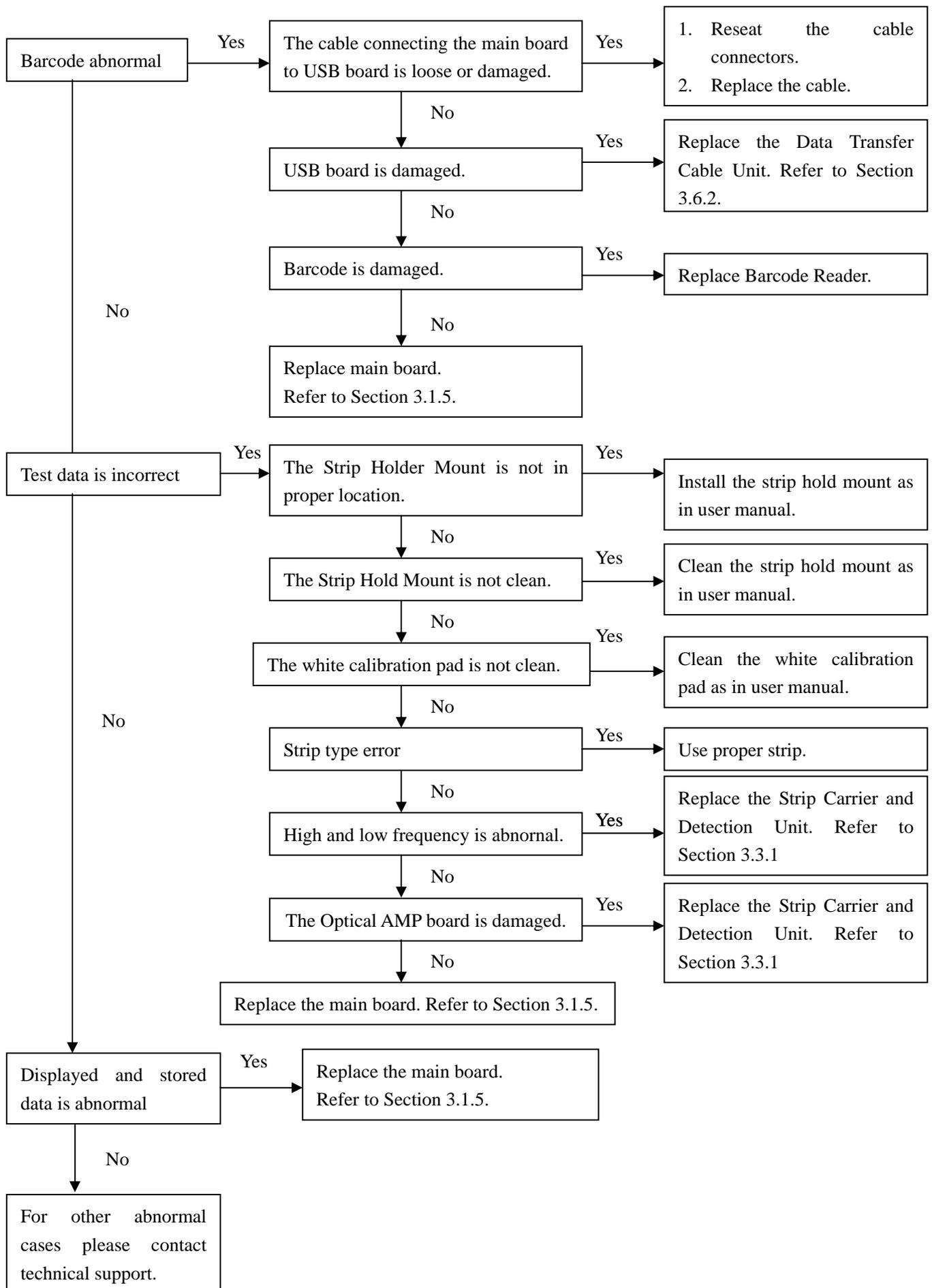






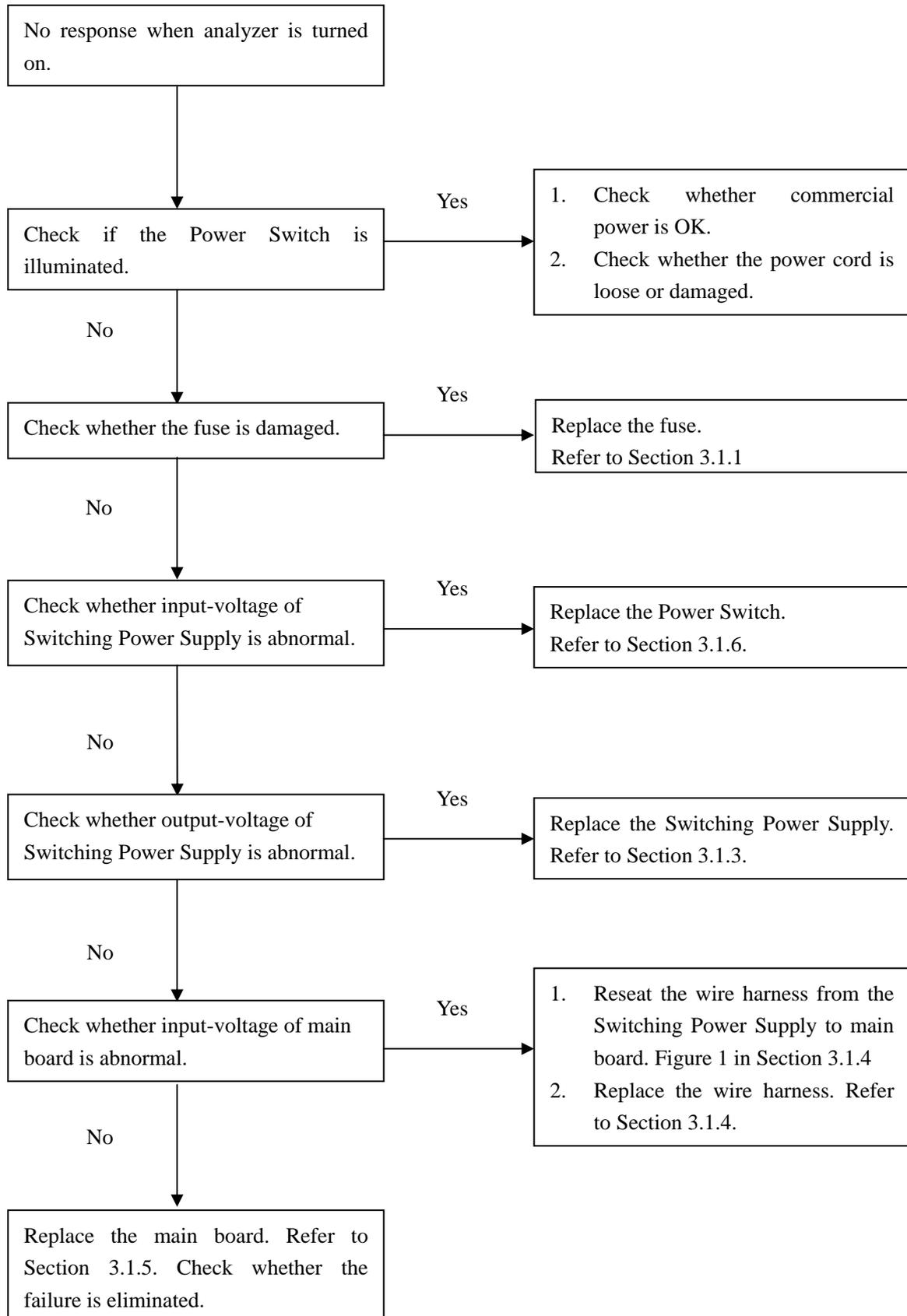




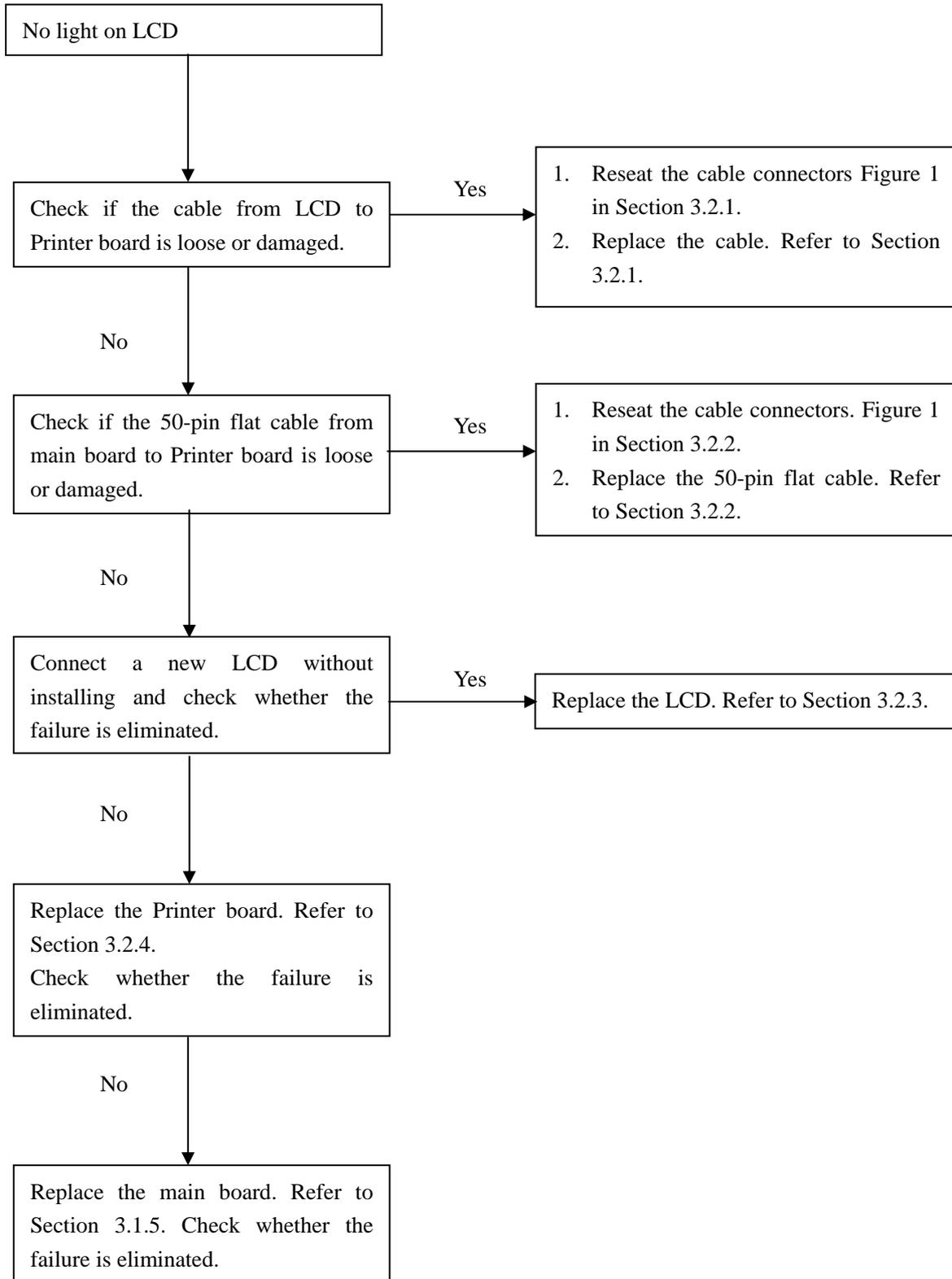


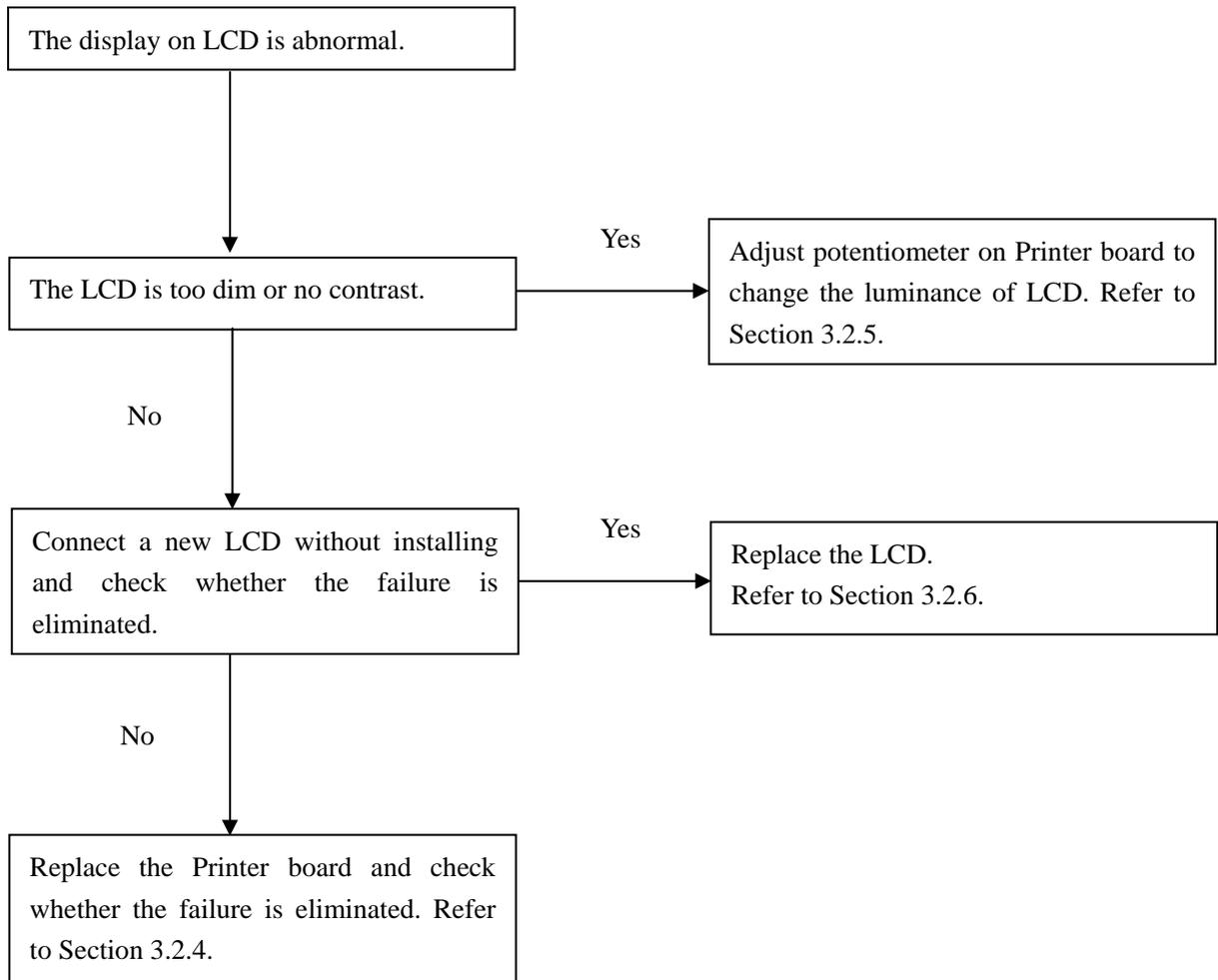
### 3 Check and Repair

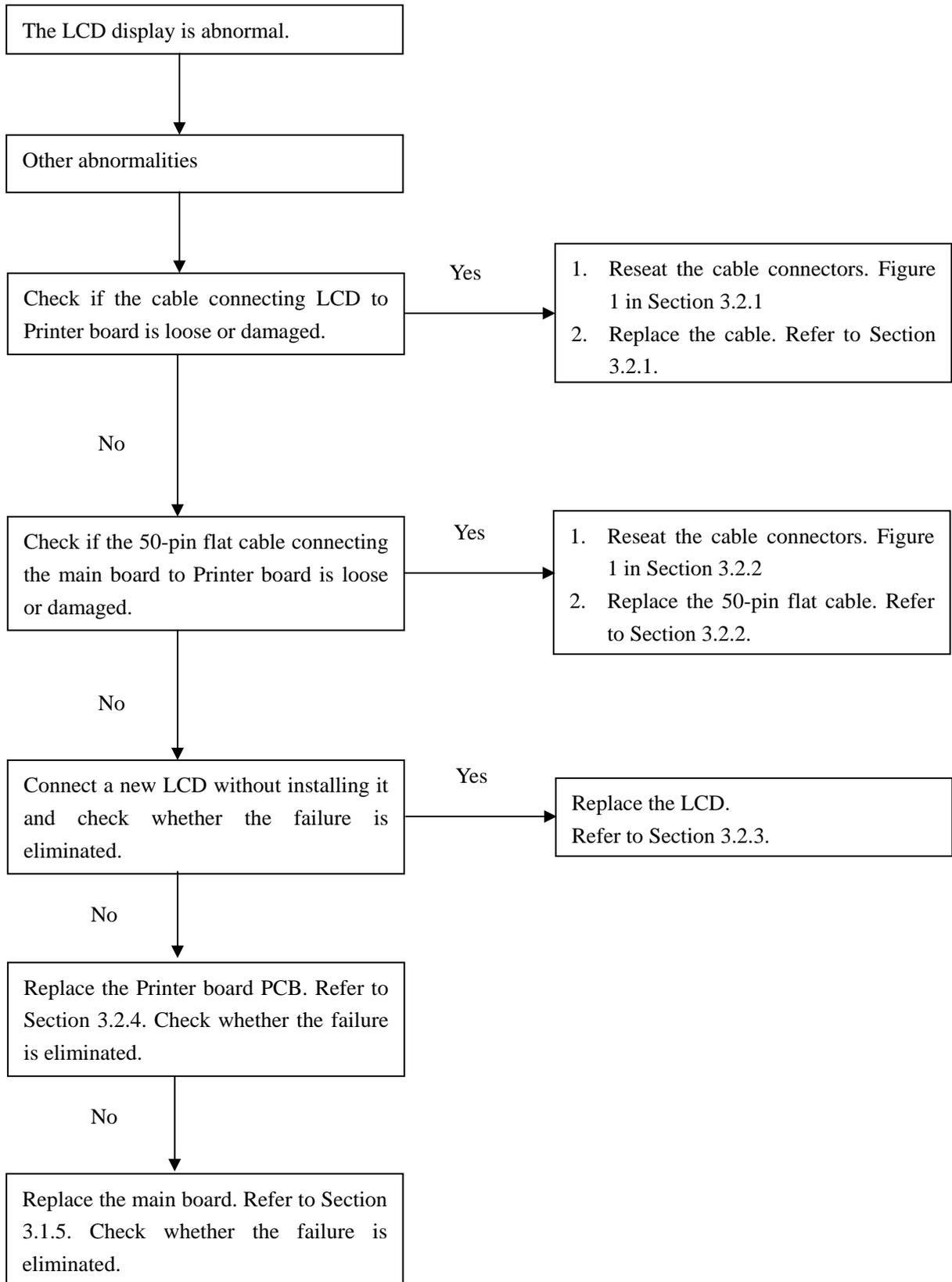
#### 3.1 Check and replacement of Switching Power Supply and Main Board



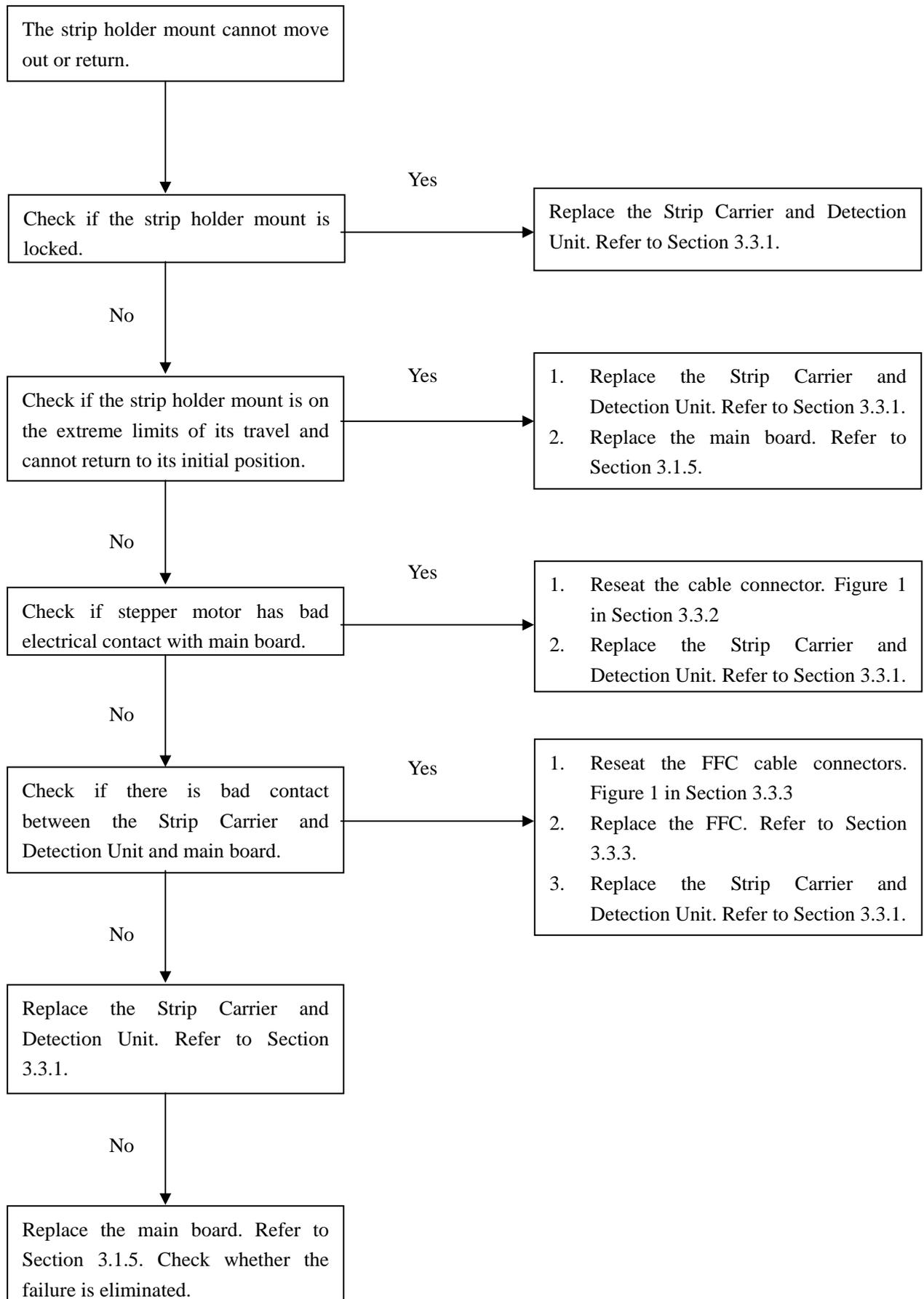
### 3.2 Check and replacement of LCD



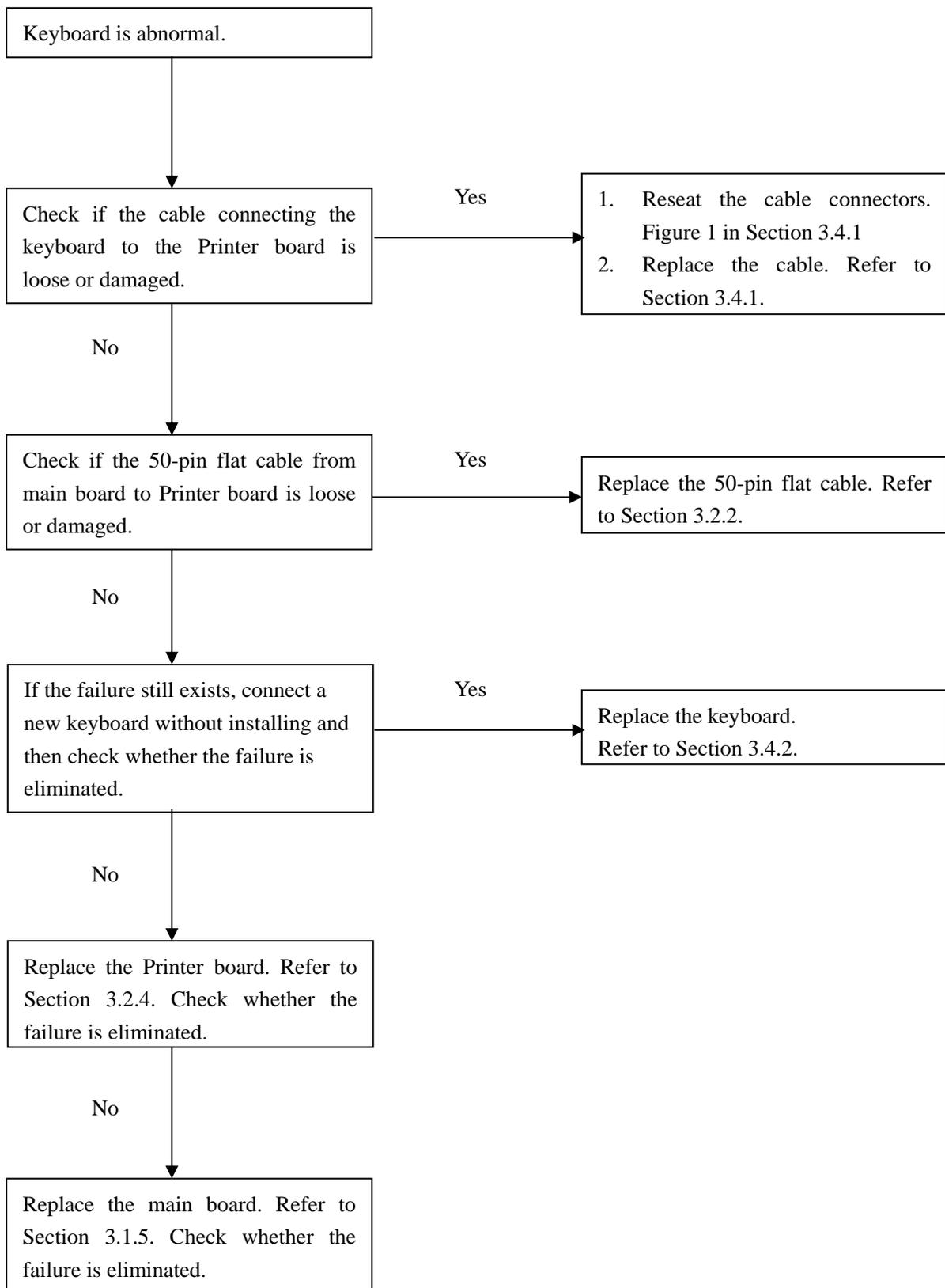




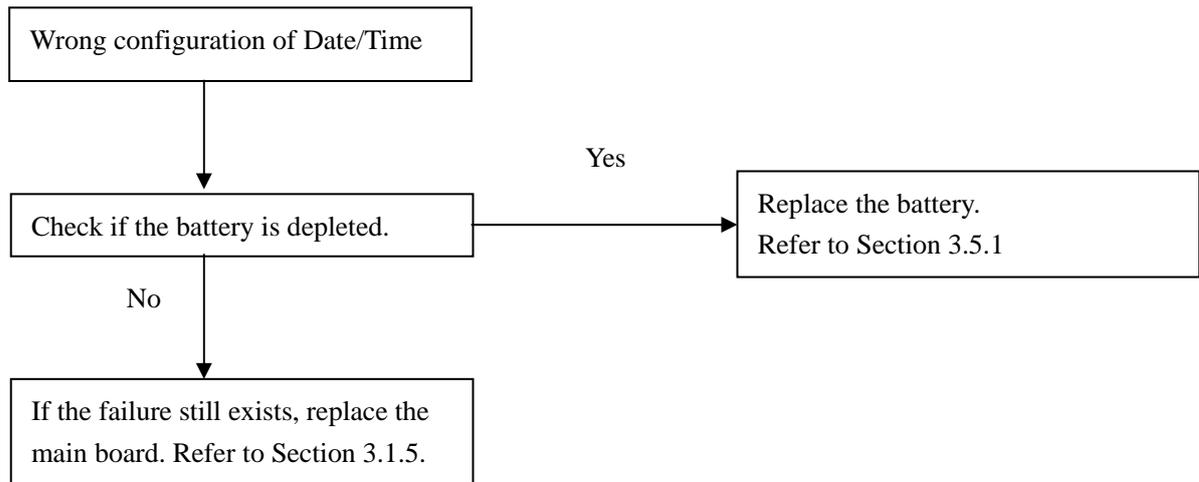
### 3.3 Check and replacement of Strip Carrier and Detection Unit



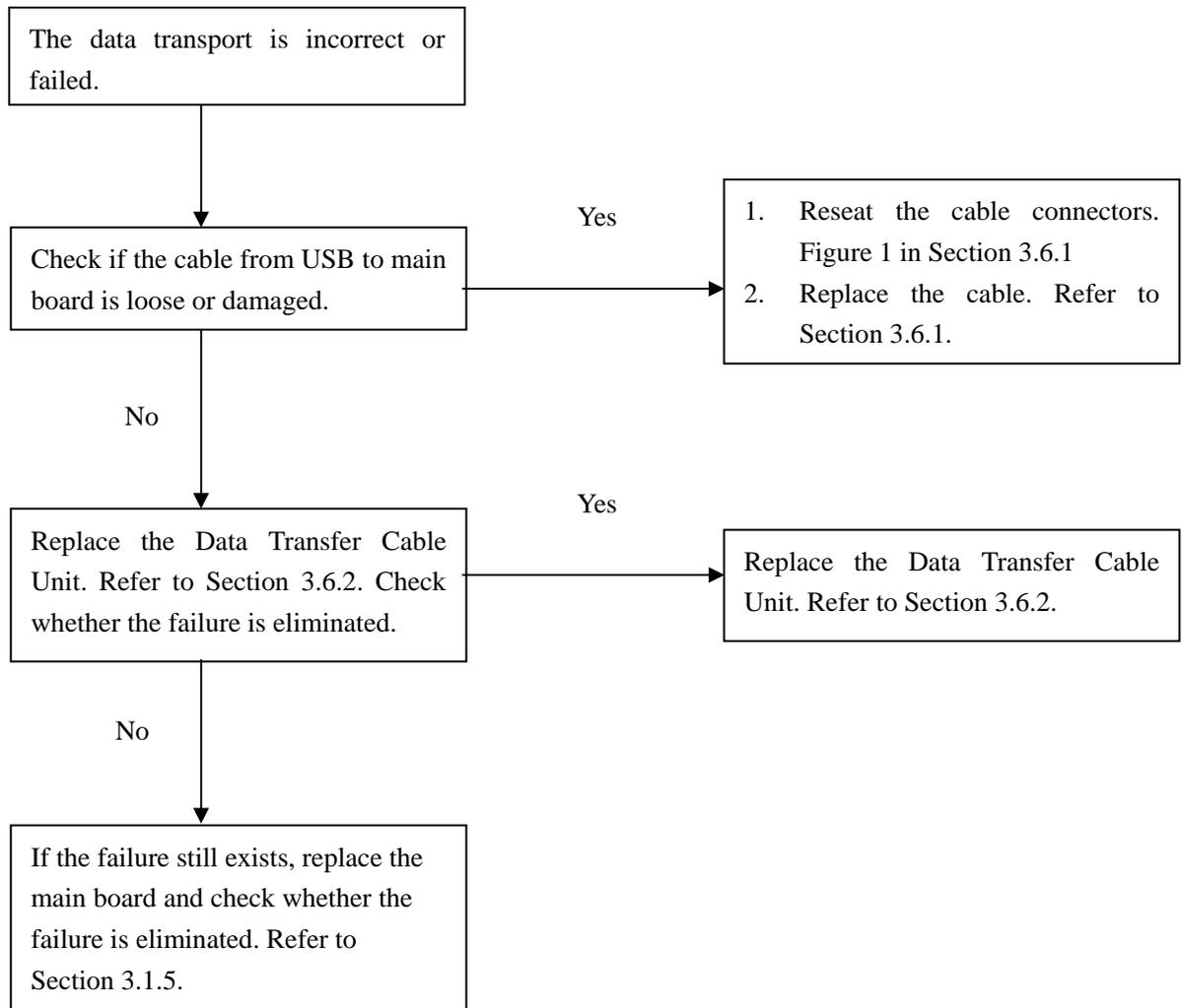
### 3.4 Check and replacement of Keyboard



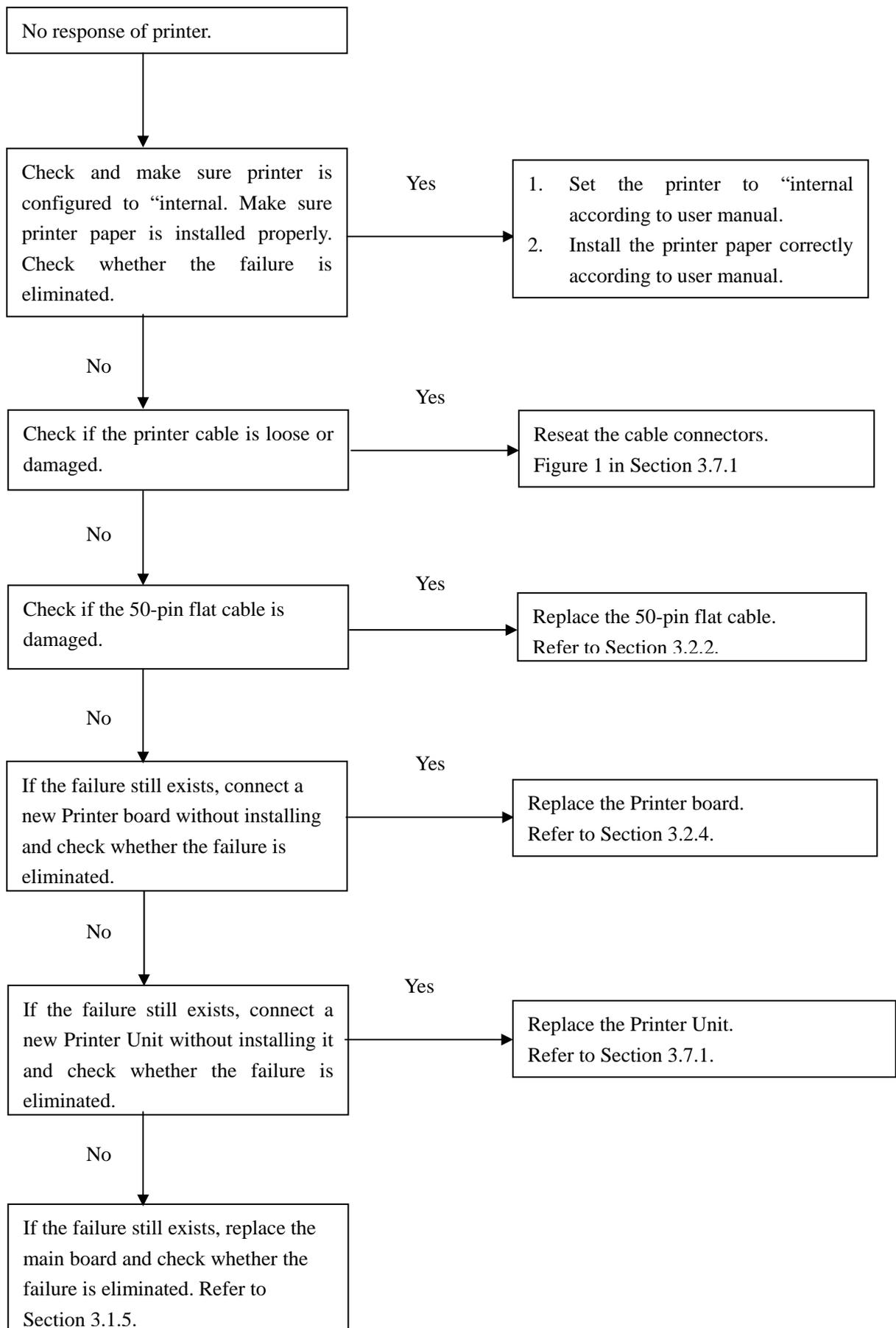
### 3.5 Check and replacement of Battery

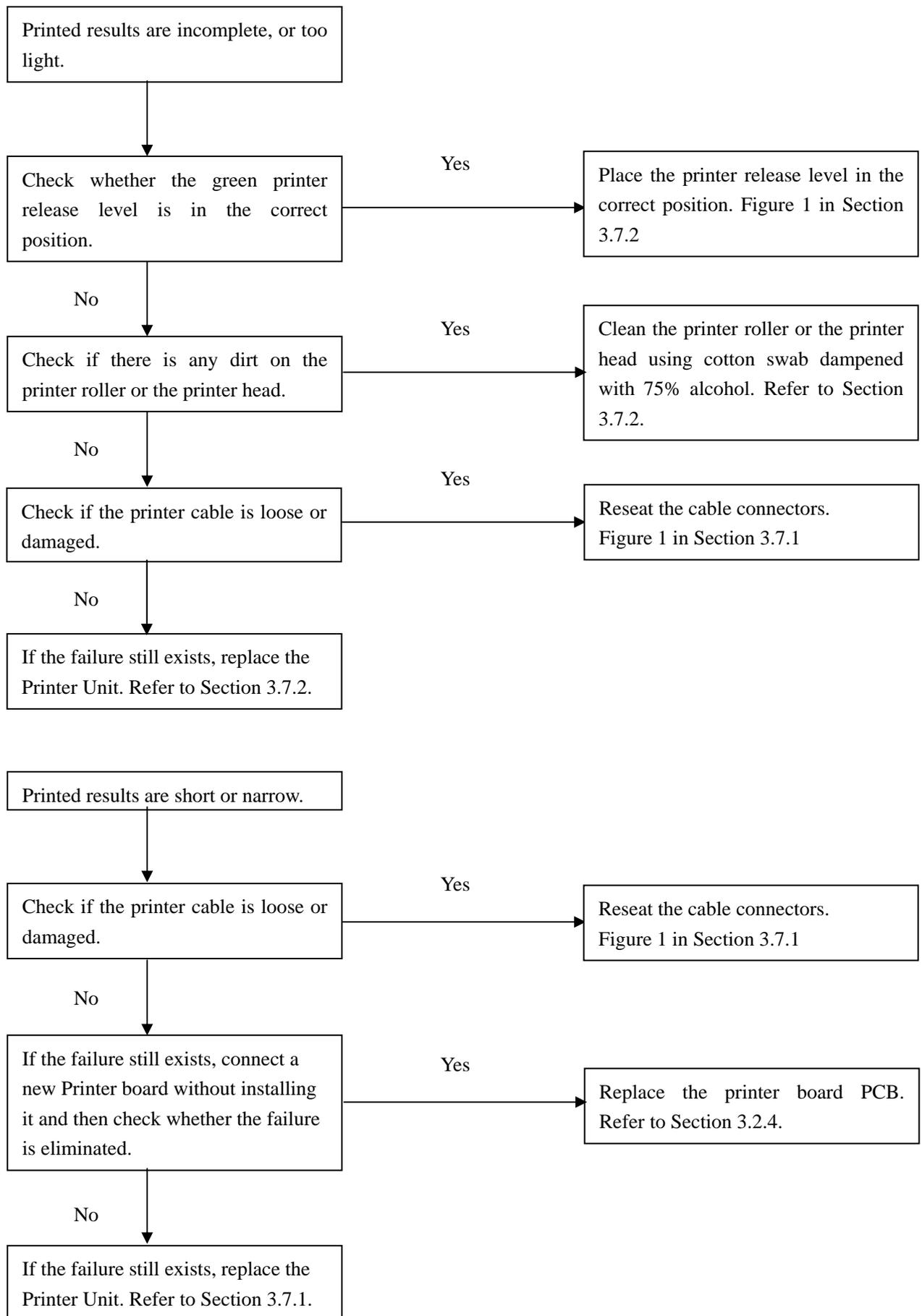


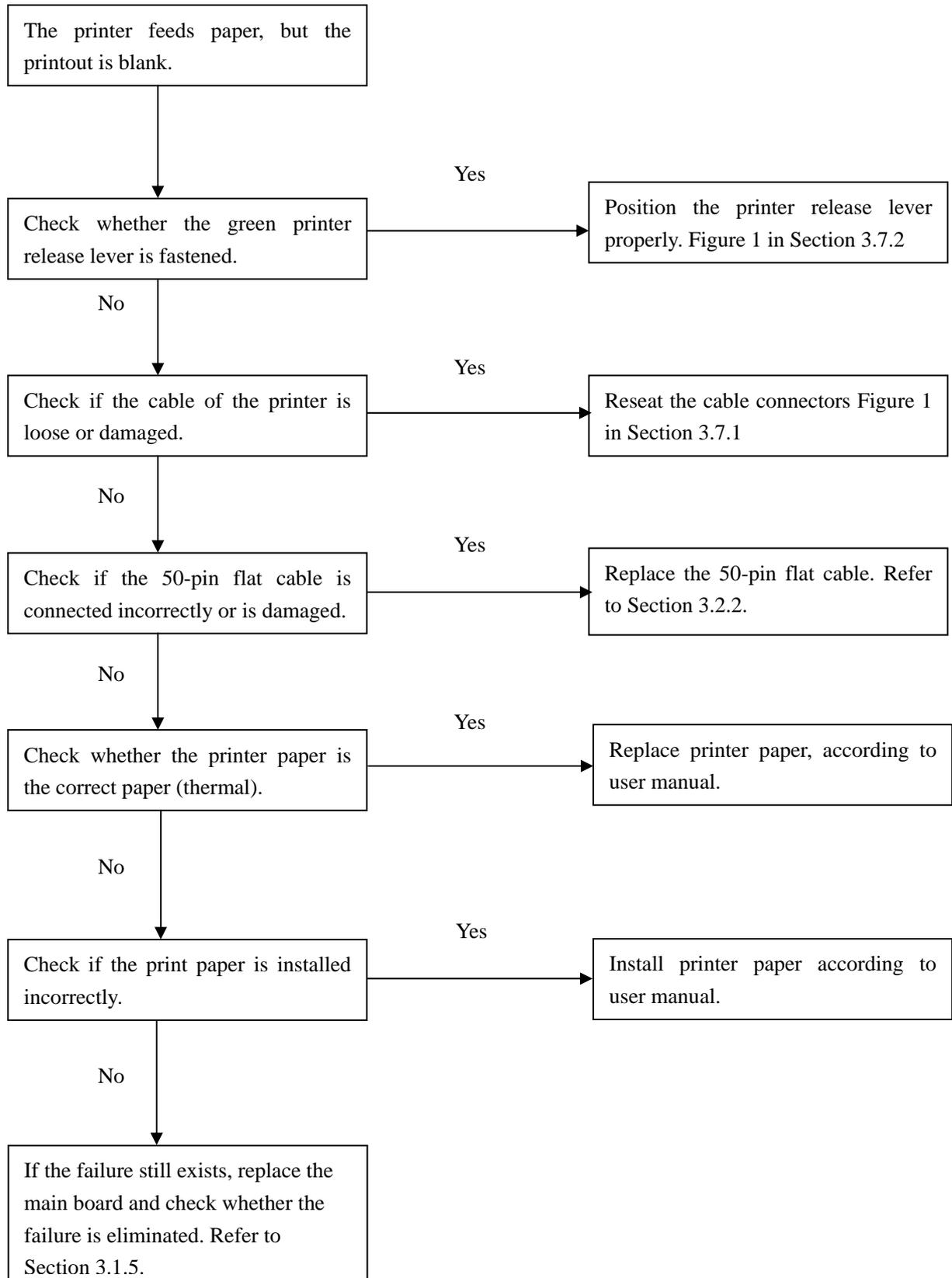
### 3.6 Check and replacement of Data Transfer Cable Unit

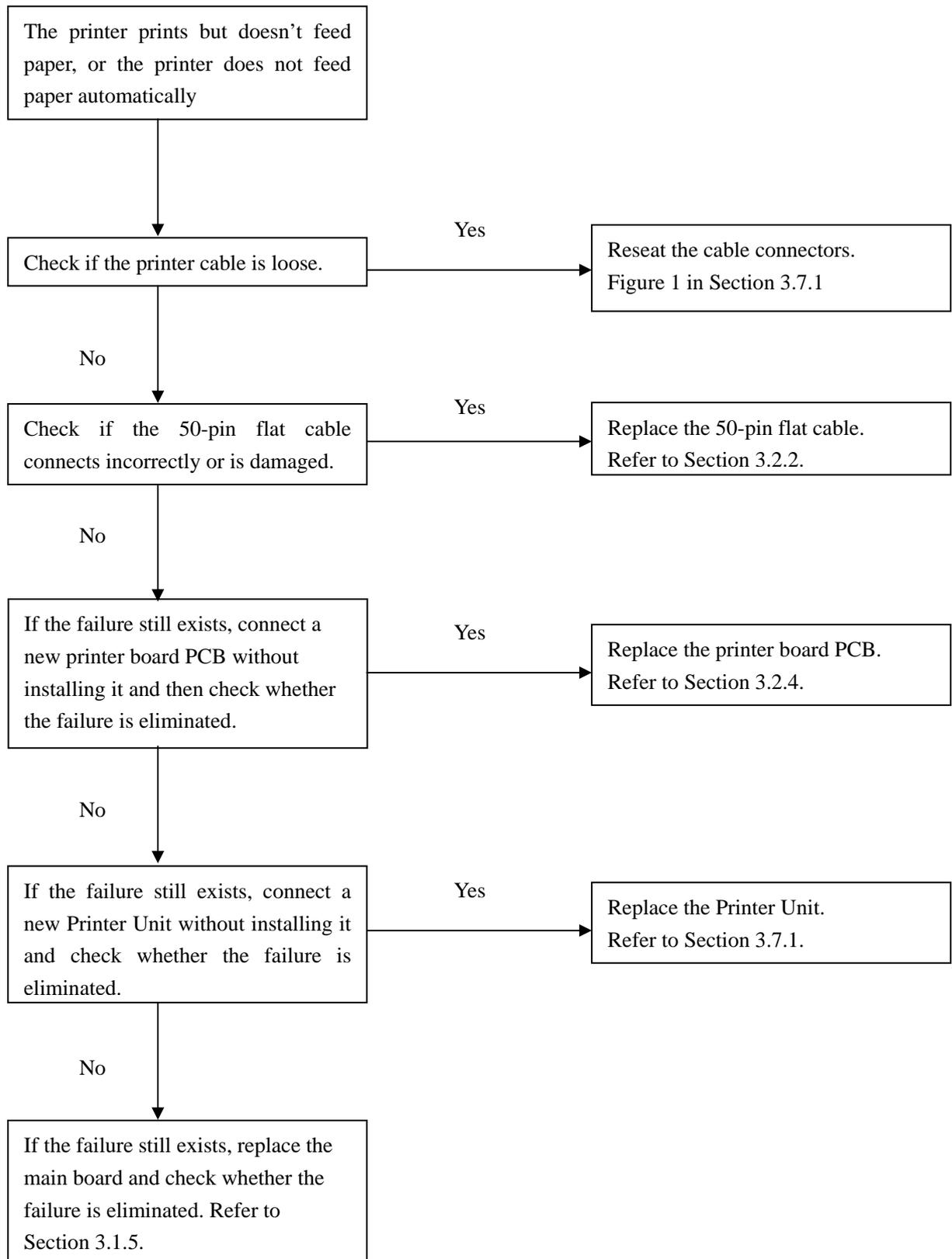


### 3.7 Check and replacement of Printer Unit





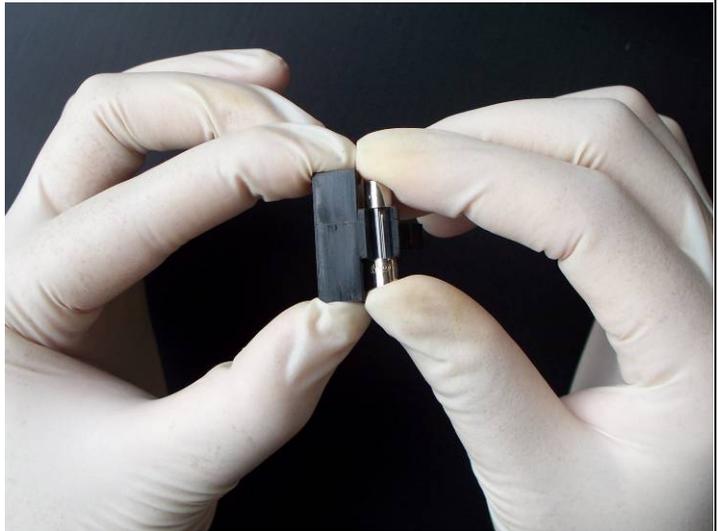




Section	Content	Operation	Figure
<b>3.1 Power Switch Unit and Main Board</b>	<b>3.1.1 Replace the Fuse</b>	1. Pull the fuse holder at the back of analyzer out, Figure 1.	<p><b>Figure 1.</b></p>  <p><b>Figure 2.</b></p> 

2. Take out the damaged fuse.
3. Replace a new fuse into the holder.
4. Install the fuse holder into the analyzer.

**Figure 3.**



**Figure 4.**



**3.1.2  
Open and  
close the  
Upper  
Housing**

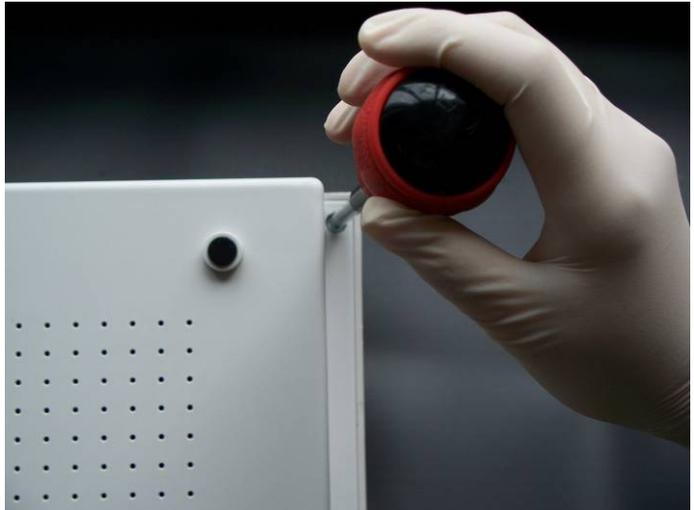
**3.1.2.1 Open the Upper  
Housing**

1. Make sure the strip holder mount is in the retracted position as in Figure 1.
2. Remove 4 screws at the back of analyzer using Phillips screwdriver, Figure 2.
3. Open the Upper Housing according to Figure 3.

**Figure 1**



**Figure 2.**



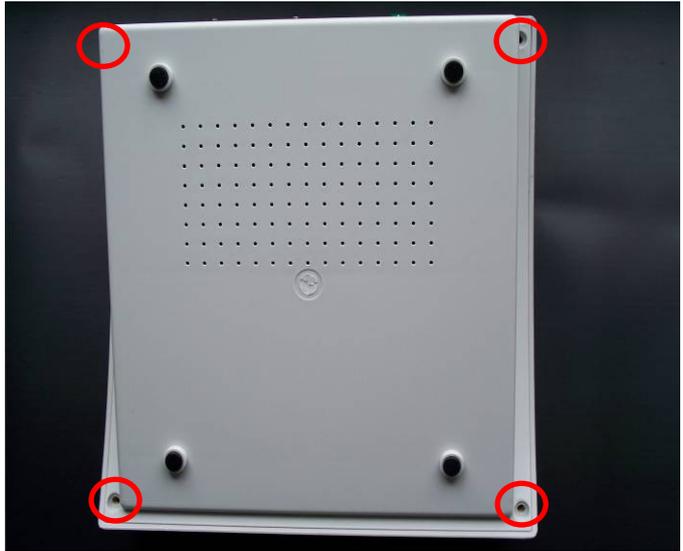
**Figure 3.**



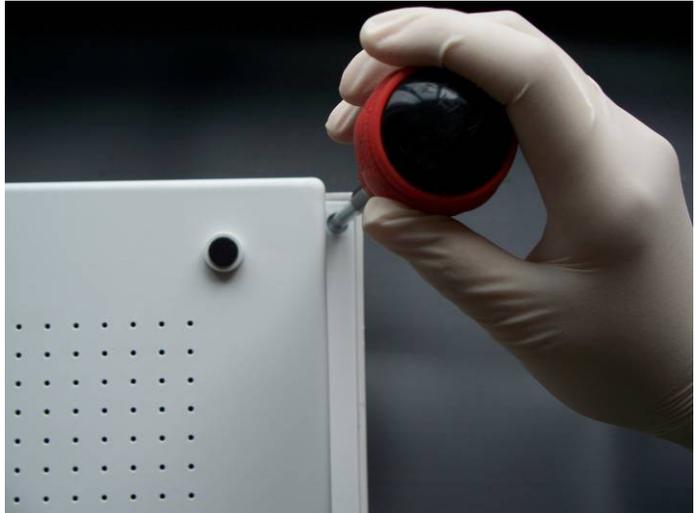
**3.1.2.2 Close the Upper Housing**

1. Close the Upper Housing and Bottom Housing, making sure they are positioned properly, especially the screw location marked in Figure 1.
2. Install and tighten all 4 screws, Figure 2.

**Figure 1.**



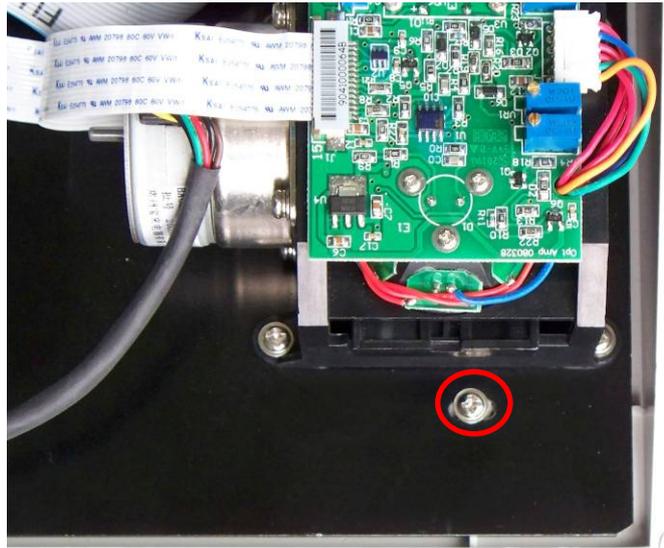
**Figure 2.**



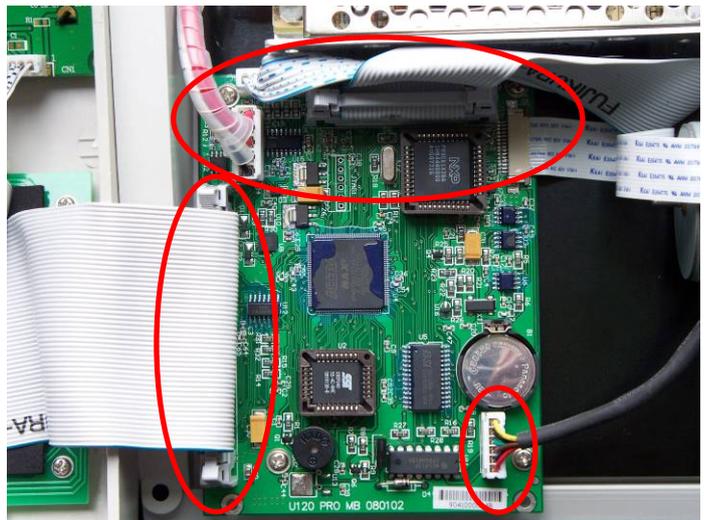
**3.1.3  
Replace the  
Switching  
Power  
Supply**

1. Open the Upper Housing. Refer to Section 3.1.2.1
2. Turn the Power Switch on. Turn it off when the strip holder mount moves to the location as shown in Figure 1. Make sure the screw marked in Figure 1 can be seen.
3. Unplug all the connectors marked in Figure 2 and remove all 4 screws marked in Figure 3. Remove the main board. Figure 3.

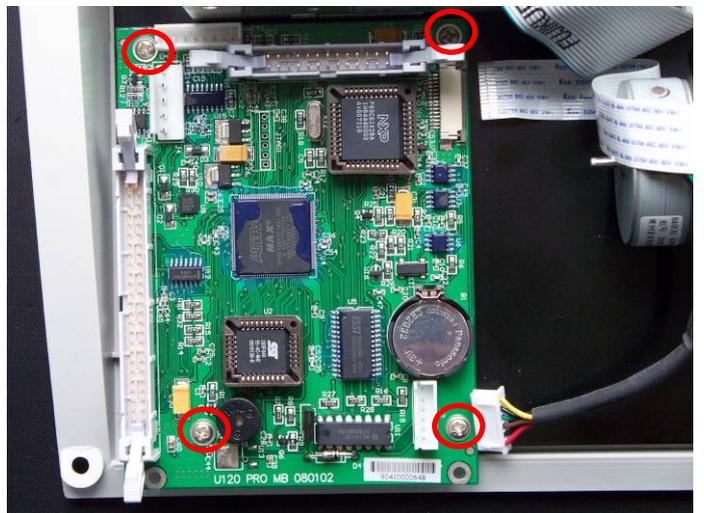
**Figure 1.**



**Figure 2.**

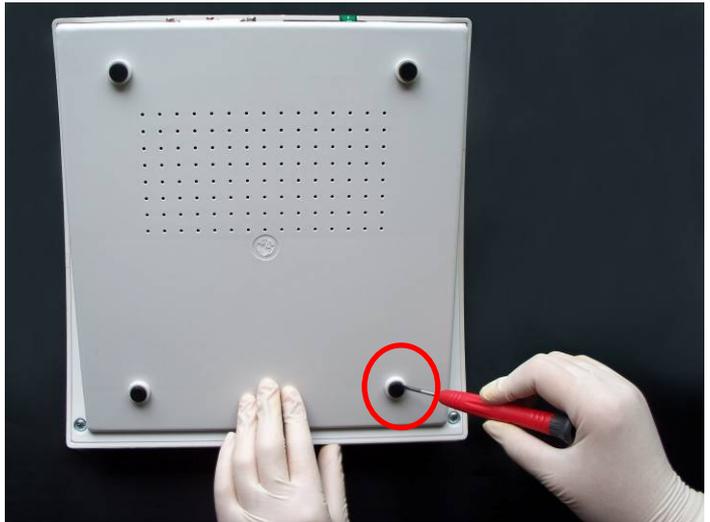


**Figure 3.**

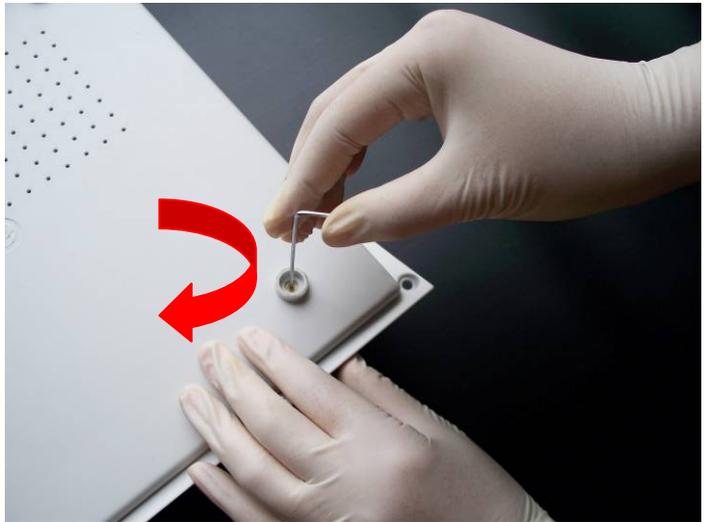


4. Turn the analyzer to its back and remove the rubber foot marked in Figure 4.
5. Loosen the screw beneath the foot using Allen Hex Plus Multi Angle Long Arm Key in Figure 5 and take it out from the front of the analyzer, Figure 6.

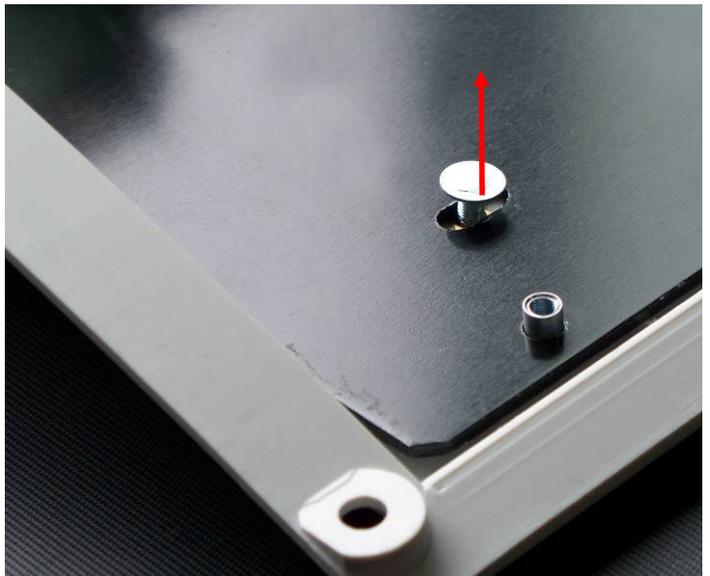
**Figure 4.**



**Figure 5.**



**Figure 6.**

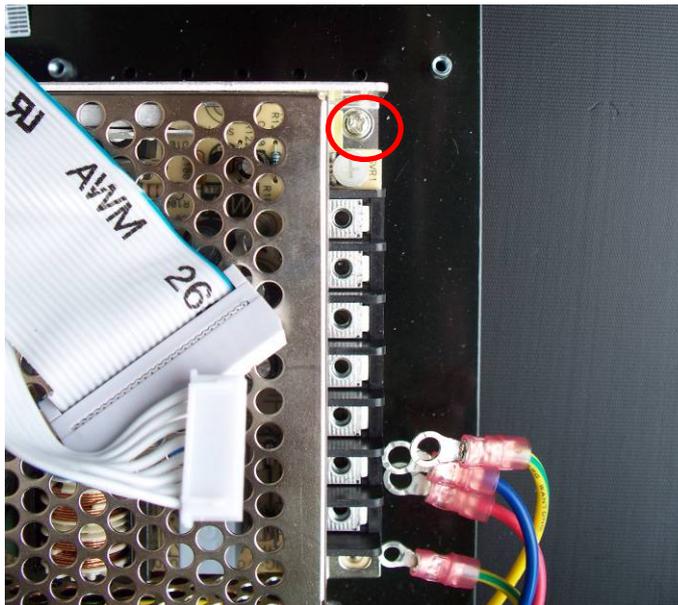


6. Remove the 3 screws marked by red arrows in Figure 1 and remove the other 8 screws marked by red ellipse in Figure 7.
7. Remove the screw marked in Figure 8.

**Figure 7.**



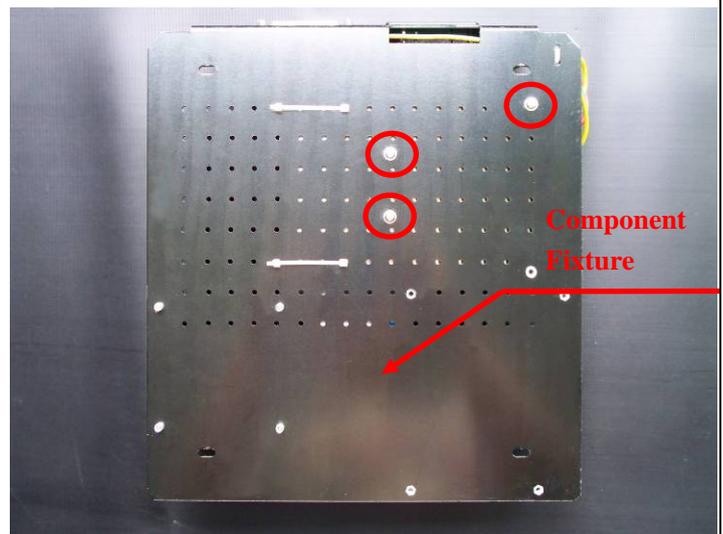
**Figure 8.**



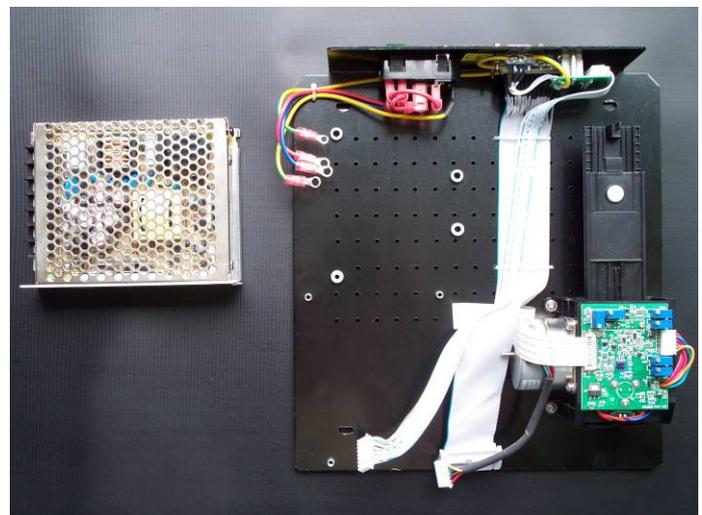
8. Take the component base out of the plastic housing. Turn the component base over and remove the 3 screws marked in Figure 9. Remove the Switching Power Supply in Figure 10.
9. Place a new Switching Power Supply onto the base and reinstall all screws.

**Caution: take care to ensure all wires are connected to their proper terminal locations, shown in Figure 11.**

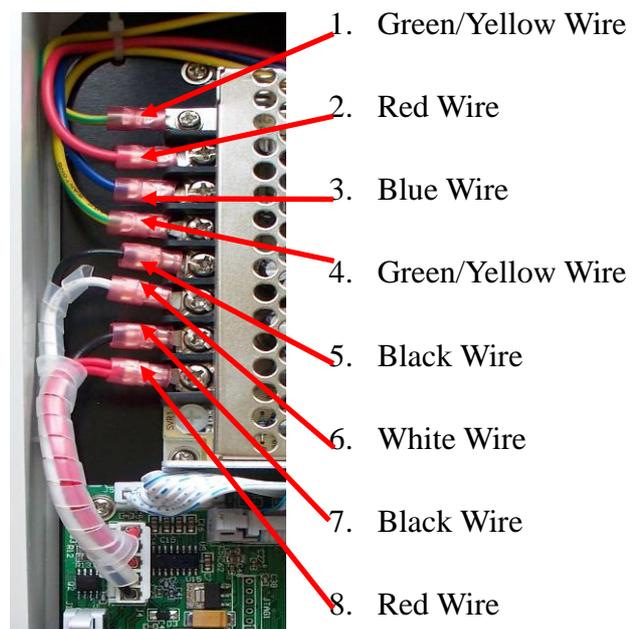
**Figure 9.**

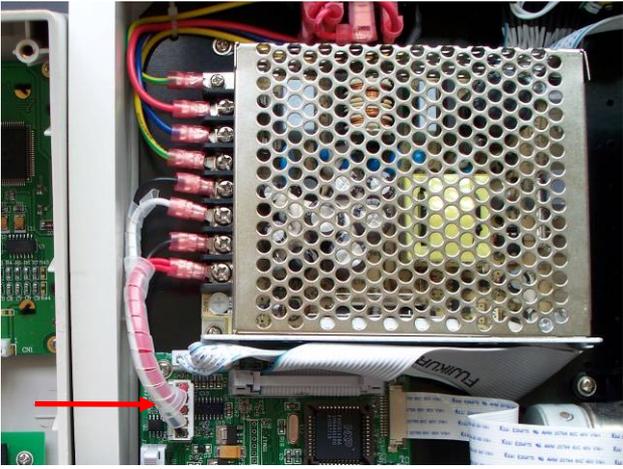
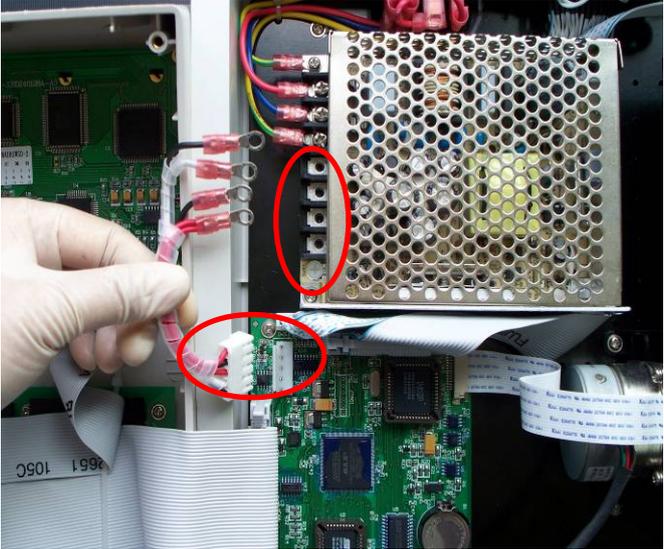
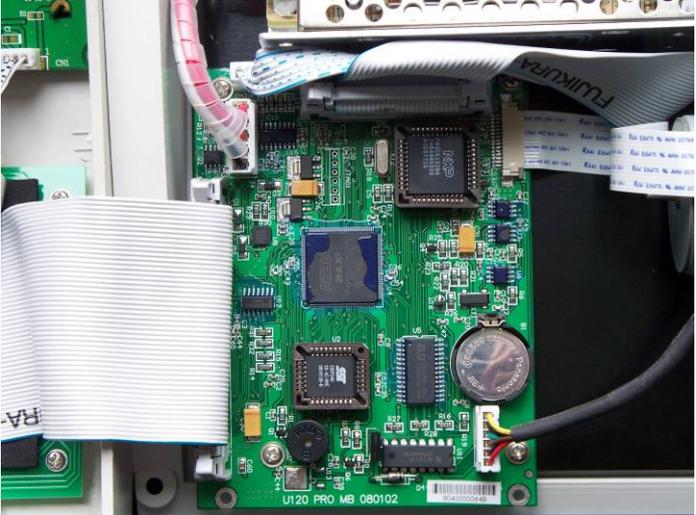


**Figure 10.**



**Figure 11.**

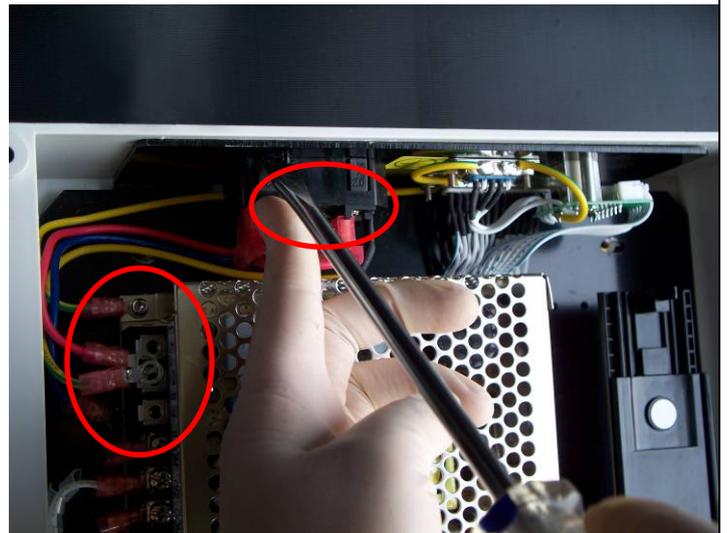


<p><b>3.1.4 Replace the Wire Harness from Switching Power Supply to Main Board</b></p>	<ol style="list-style-type: none"> <li>1. Open the Upper Housing. Refer to Section 3.1.2.1.</li> <li>2. Remove the 4 screws and unplug the connector marked in Figure 2.</li> <li>3. Replace the cable, screwing the 4 wires down to the power supply terminals as shown. Plug in the connector.</li> </ol>	<p><b>Figure 1.</b></p>  <p><b>Figure 2.</b></p> 
<p><b>3.1.5 Replace the Main Board</b></p>	<ol style="list-style-type: none"> <li>1. Open the Upper Housing. Refer to Section 3.1.2.1.</li> <li>2. Remove the main board, see chapter 3 in Section 3.1.3.</li> <li>3. Replace the main board, tighten all screws, and plug in all connectors as in Figure 1.</li> </ol>	<p><b>Figure 1.</b></p> 

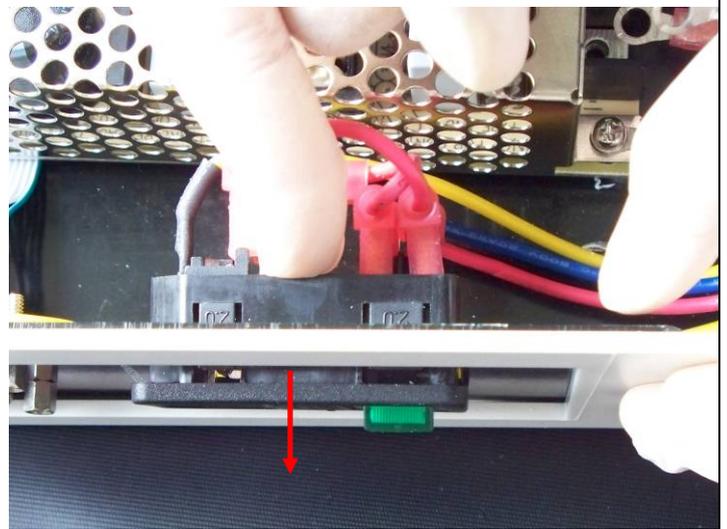
**3.1.6  
Replace the  
Power  
Switch  
Unit**

1. Open the Upper Housing. Refer to Section 3.1.2.1.
2. Loosen the wire harness by removing 3 screws marked in Figure 1. Press the snap at the top of Power Switch Unit using flathead screwdriver and push it out.
3. Push out both of the two snaps at the top of Power Switch Unit, Figure 2.

**Figure 1.**

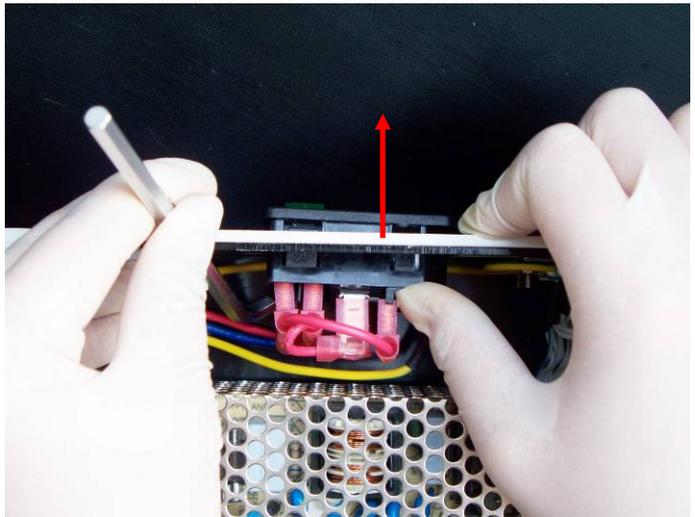


**Figure 2.**



4. For there are also two snaps at the bottom of the Power Switch Unit. Pull out the Power Switch by using the Allen Hex Plus Multi Angle Long Arm Key like Figure 3 and Figure 4.
5. Remove the Power Switch Unit, Figure 5. Replace a new Power Switch. Screwing all the wires down to the power supply terminals as shown in Figure 1.

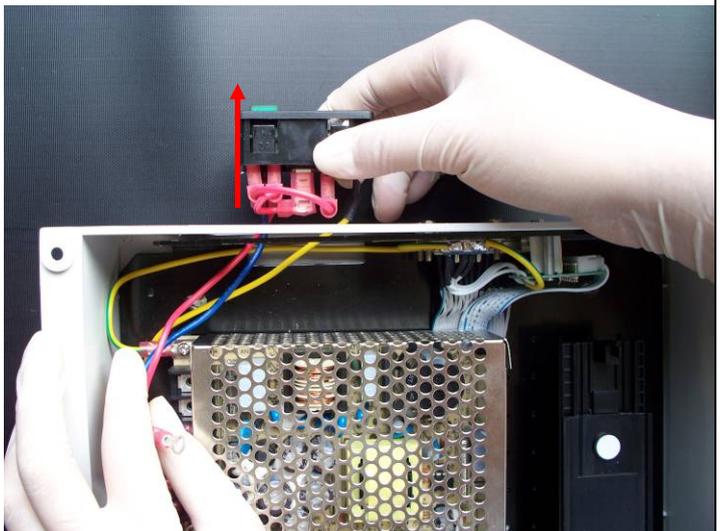
**Figure 3.**



**Figure 4.**



**Figure 5.**



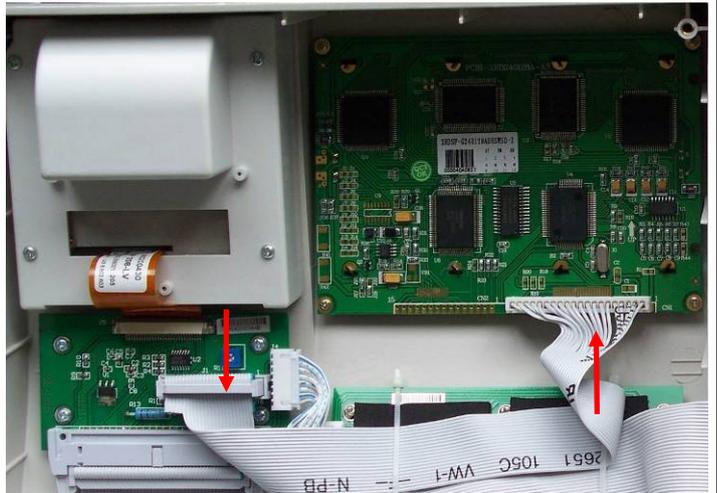
### 3.2 LCD

#### 3.2.1 Replace the LCD to Printer Board cable

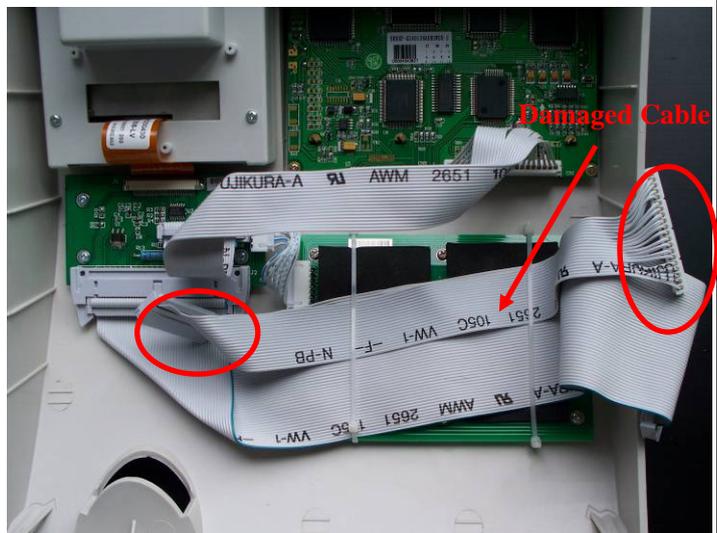
1. Open the Upper Housing. Refer to Section 3.1.2.1.
2. Unplug the two connectors marked in Figure 2. Connect a new cable without installing and check whether the failure is eliminated, Figure 2.
3. If the failure is eliminated, remove the damaged cable and install the cable as in Figure 3.

**Caution: the LCD connector is very tight. When unplugging this cable do not pull on the wires.**

**Figure 1.**



**Figure 2.**



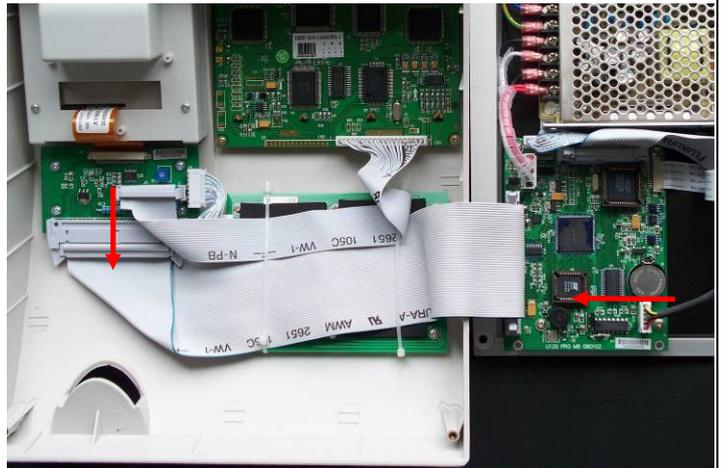
**Figure 3.**



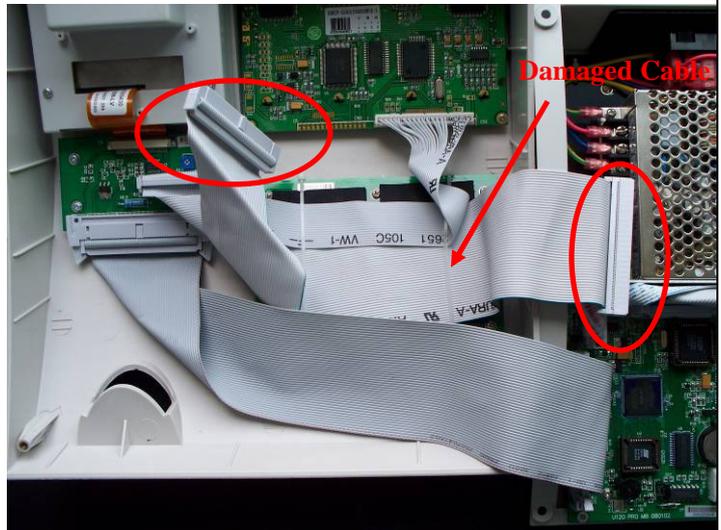
**3.2.2  
Replace the  
50-Pin Flat  
Cable**

1. Open the Upper Housing. Refer to Section 3.1.2.1.
2. Unplug the two connectors of the cable marked in Figure 2. Connect a new cable without installing and check whether the failure is eliminated. Figure 2.
3. If the failure is eliminated, take off the damaged cable marked in Figure 2. Install the cable like Figure 3.

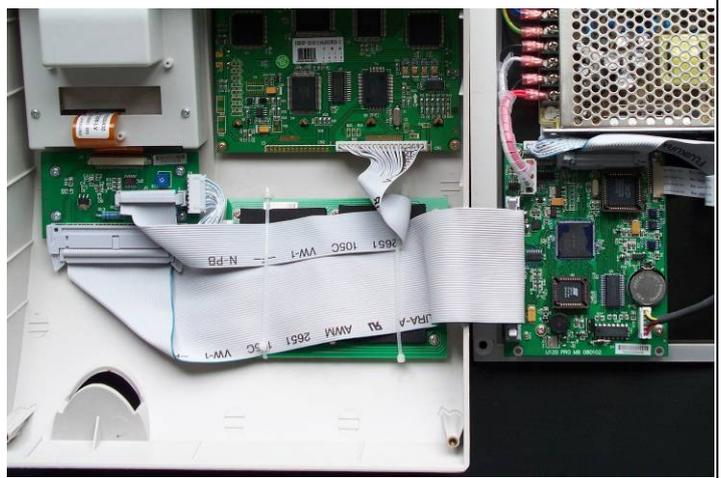
**Figure 1.**

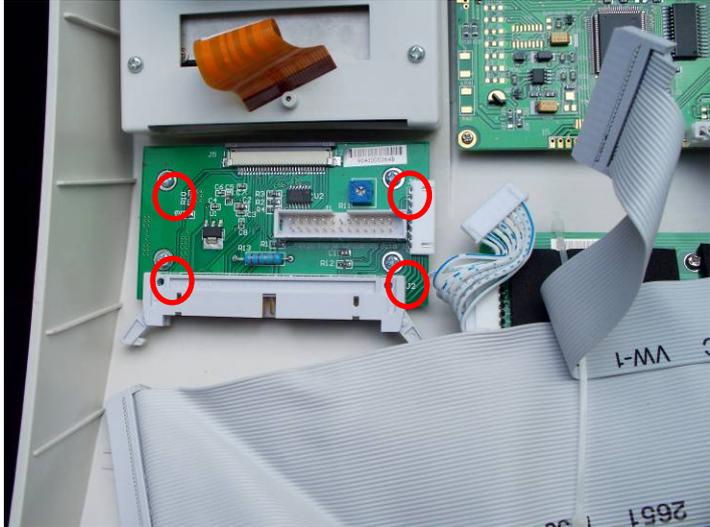


**Figure 2.**



**Figure 3.**



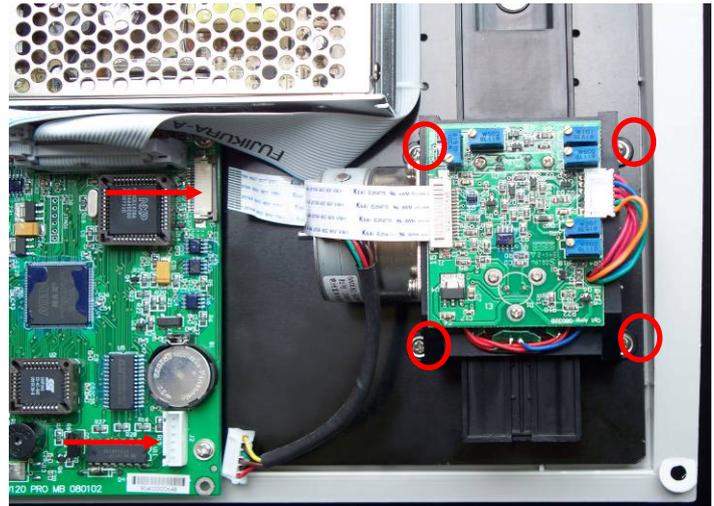
<p><b>3.2.3 Replace the LCD</b></p>	<ol style="list-style-type: none"> <li>1. Open the Upper Housing. Refer to Section 3.1.2.1.</li> <li>2. Unplug the LCD connector.</li> <li>3. Remove the 4 screws marked in Figure 1.</li> <li>4. Replace the LCD and tighten all 4 screws.</li> </ol>	<p><b>Figure 1.</b></p> 
<p><b>3.2.4 Replace the Printer Board</b></p>	<ol style="list-style-type: none"> <li>1. Open the Upper Housing. Refer to Section 3.1.2.1.</li> <li>2. Unplug the 4 Printer board connectors.</li> <li>3. Remove the 4 screws marked in Figure 1.</li> <li>4. Replace the Printer board and tighten all 4 screws.</li> </ol>	<p><b>Figure 1.</b></p> 
<p><b>3.2.5 Potentiometer adjustment</b></p>	<ol style="list-style-type: none"> <li>1. Open the Upper Housing. Refer to Section 3.1.2.1.</li> <li>2. Adjust the potentiometer on the Printer board using ceramic screwdriver slotted tip as shown in Figure 1.</li> <li>3. Observe the brightness of the LCD, adjusting until the proper brightness is observed.</li> </ol>	<p><b>Figure 1.</b></p> 

**3.3 Detect Unit**

**3.3.1 Replace the Strip Carrier and Detection Unit**

1. Open the Upper Housing. Refer to Section 3.1.2.1.
2. Unplug the connectors marked in Figure 1.
3. Remove all 4 screws marked in Figure 1.
4. Replace the Strip Carrier and Detection Unit and reinstall all 4 screws.

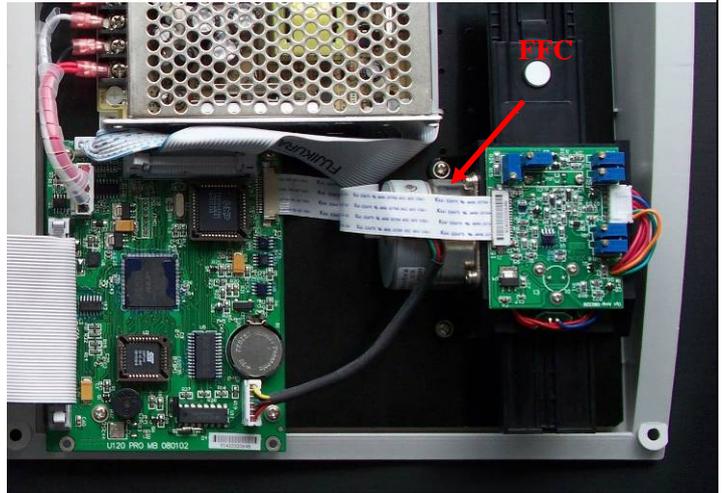
**Figure 1.**



**3.3.2  
Replace the  
FFC from  
Strip  
Carrier  
and  
Detection  
Unit to  
Main  
Board**

1. Open the Upper Housing. Refer to Section 3.1.2.1.
2. Replace the FFC cable and plug it into the connectors, Figure 1.

**Figure  
1.**

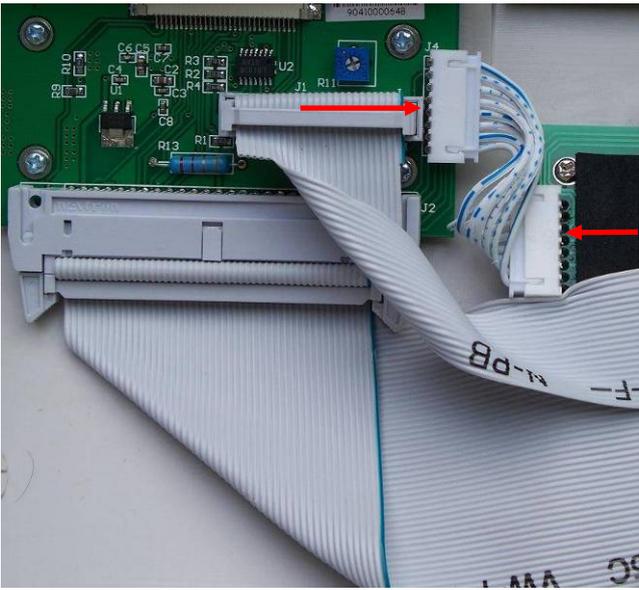


**3.4  
Keyboard**

**3.4.1  
Replace the  
Keyboard  
to Printer  
Board  
cable**

1. Open the Upper Housing. Refer to Section 3.1.2.1.
2. Unplug the two cable connectors marked in Figure 1.
3. Replace the cable and insert the connectors.

**Figure 1.**

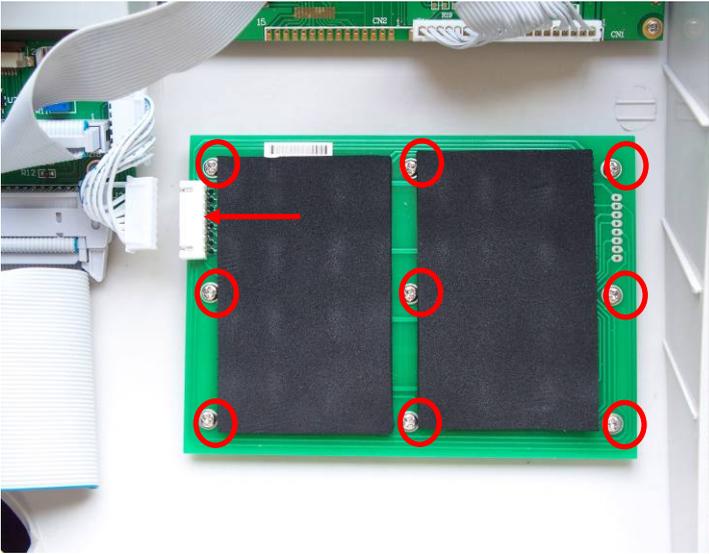


**3.4.2  
Replace the  
Keyboard**

1. Open the Upper Housing. Refer to Section 3.1.2.1.
2. Unplug the connector marked in Figure 1.
3. Remove all 9 screws marked in Figure 1.
4. Replace the Keyboard and tighten all 9 screws.

**Caution: install the keyboard positioned as shown in Figure 1.**

**Figure 1.**



### 3.5 Battery

#### 3.5.1 Replace the Battery

1. Open the Upper Housing. Refer to Section 3.1.2.1.
2. Press the button marked in Figure 1 to release the battery from the holder.
3. The battery should pop out of the holder.
4. Replace the battery and press it tightly into the holder until it is retained by the clip shown.

**(Caution: if the battery does not pop out, carefully pry the battery out after releasing it using a small screwdriver.)**

**Figure 1.**



**Figure 2.**

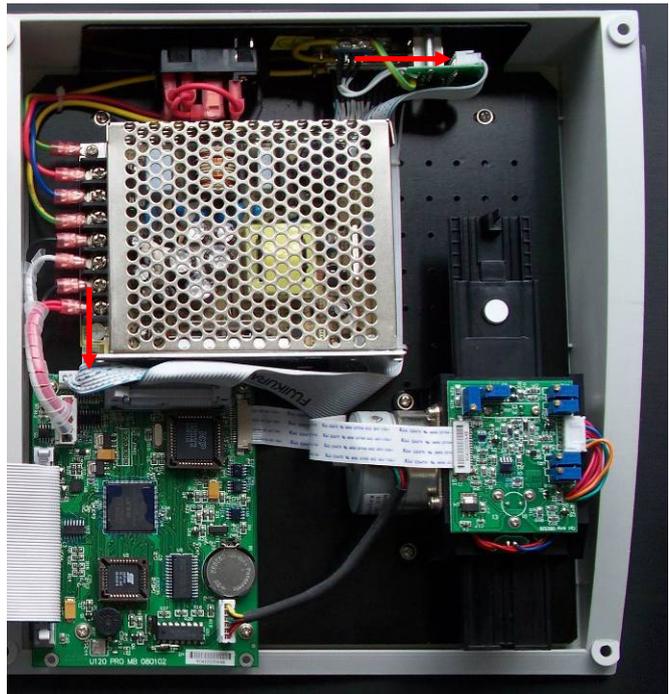


**3.6  
Data  
Transfer  
Cable Unit**

**3.6.1  
Replace the  
USB to  
Main  
Board  
cable**

1. Open the Upper Housing. Refer to Section 3.1.2.1.
2. Unplug the two connectors of the cable marked in Figure 1.
3. Replace the cable and plug the connectors in.

**Figure 1.**



**Figure 2.**



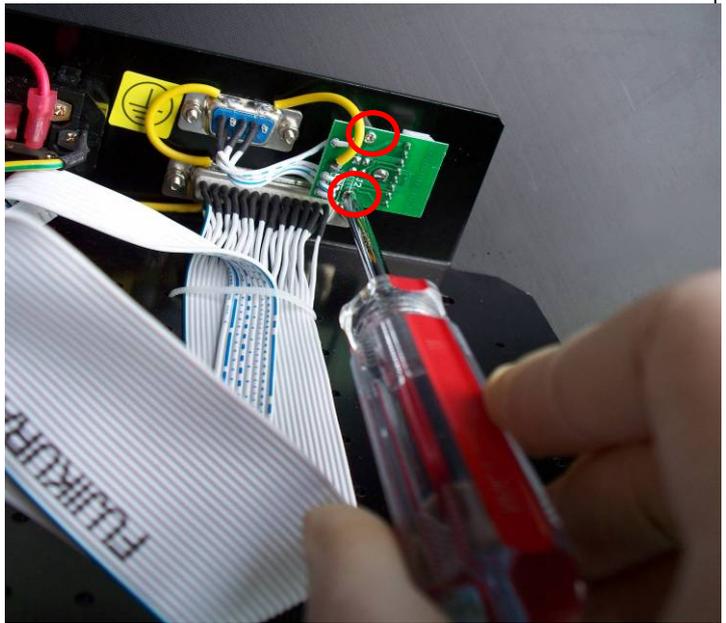
**Figure 3.**



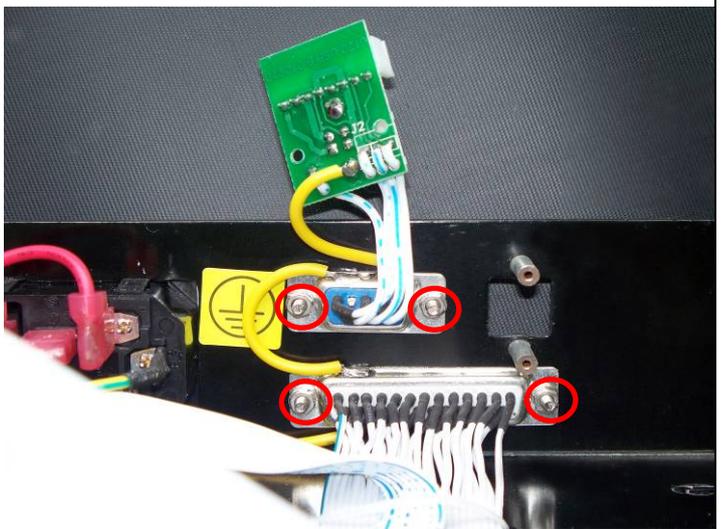
**3.6.2  
Replace the  
Data  
Transfer  
Cable Unit**

1. Open the Upper Housing. Refer to Section 3.1.2.1.
2. Remove the 2 screws marked in Figure 1.

**Figure 1.**

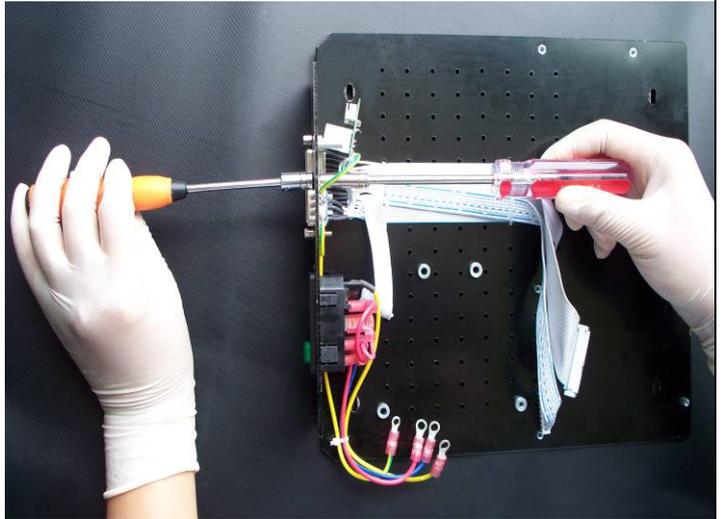


**Figure 2.**

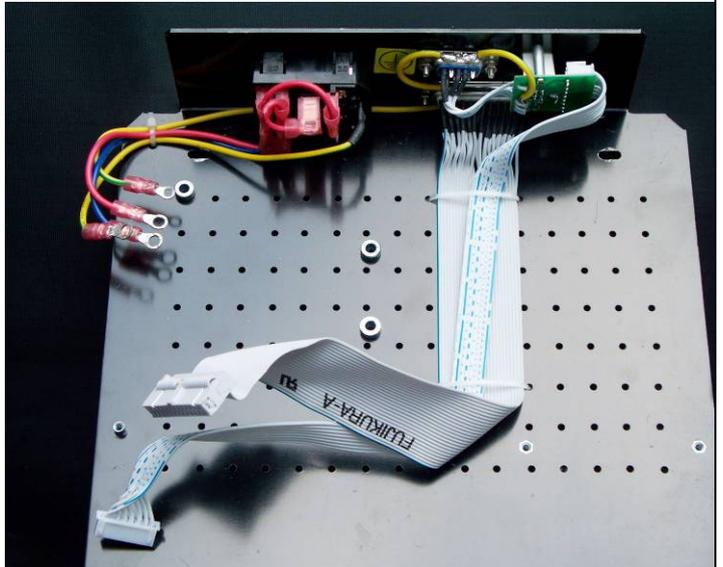


3. Remove the 4 screws (specially used for RS232 Port) marked in Fig 2 using two Hex Sockets, Figure 3.
4. Replace the Data Transfer Cable Unit and tighten all the screws, Figure 4.

**Figure 3.**



**Figure 4.**



**3.7  
Printer  
Unit**

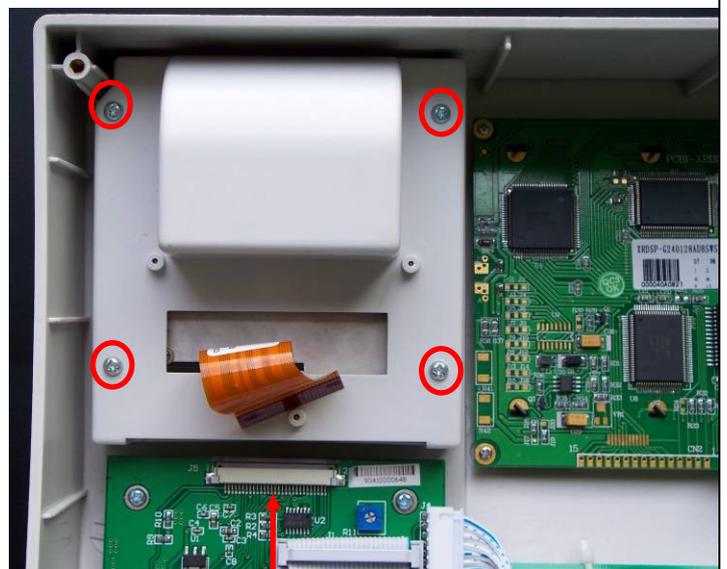
**3.7.1  
Replace the  
Printer  
Unit**

1. Open the Upper Housing. Refer to Section 3.1.2.1.
2. Unplug the connector marked in Figure 2.
3. Remove all 4 screws marked in Figure 2.
4. Replace the Printer Unit and tighten all 4 screws.

**Figure 1.**



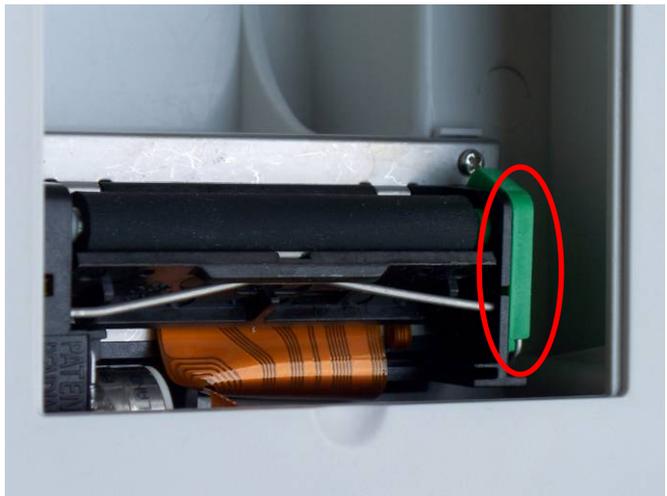
**Figure 2.**



**3.7.2  
Clean the  
Printer  
Roller and  
Printer  
Head**

1. Raise the green lever as shown in Figure 2 and remove the printer paper.
2. Clean the printer roller and printer head using cotton swab dipping in 75% alcohol solution.
3. After the cleaned area is dry, position the green lever down again, Figure 1.

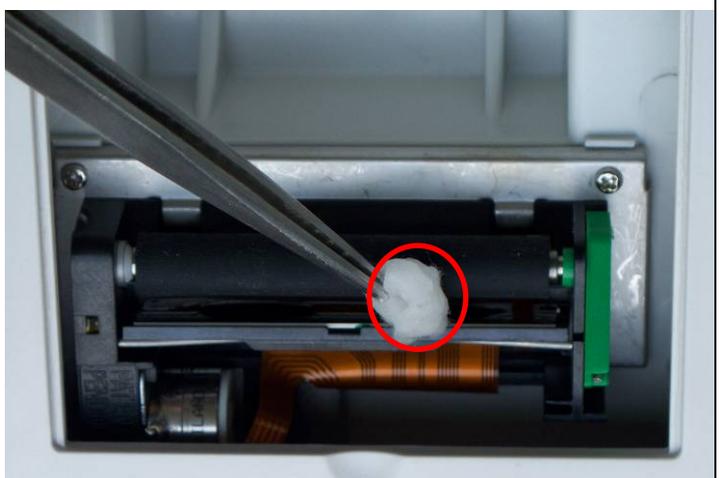
**Figure 1.**



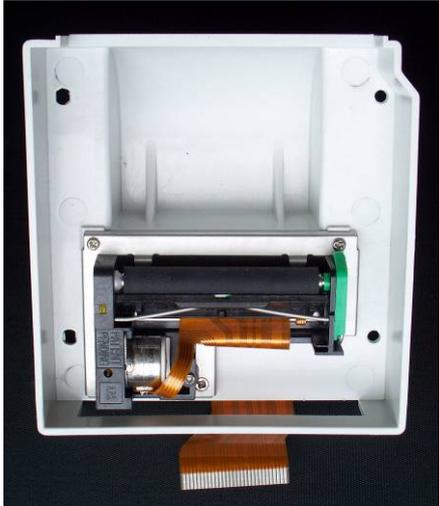
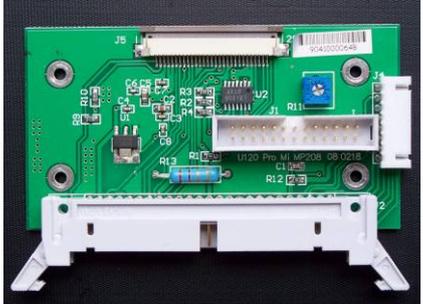
**Figure 2.**

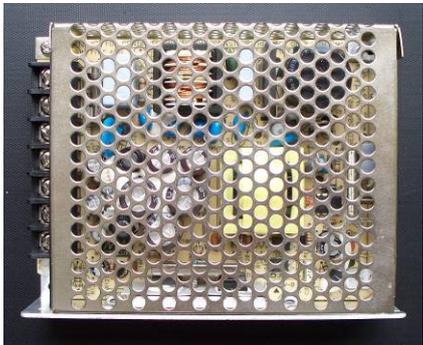
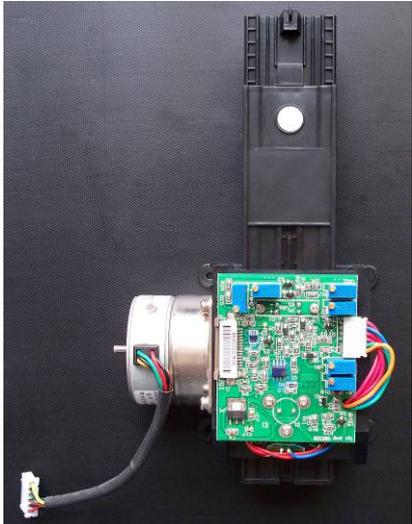
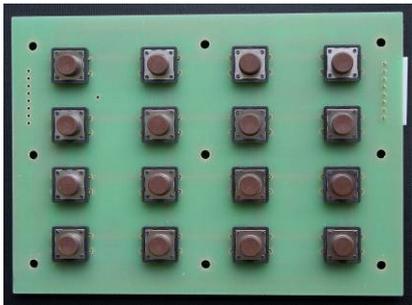


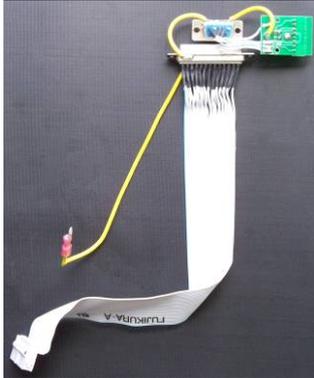
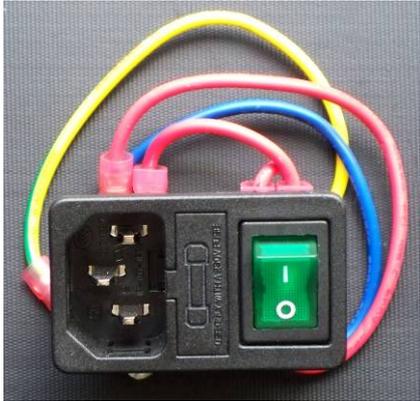
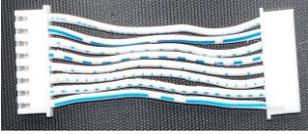
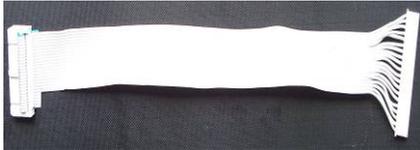
**Figure 3.**



## 4. Spare parts

Part No.	Name	Subassembly	Figure
001	LCD	LCD	
002	Printer Unit	Printer with Printer Box	
003	Printer board	Printer board	

004	Main Board	Main Board	
005	Switching Power Supply	Switching Power Supply	
006	Strip Carrier and Detection Unit	Strip Carrier and Detection Unit	
007	Keyboard	Keyboard	

008	Battery	Battery	
009	Data Transfer Cable Unit	Data Transfer Cable Unit	
010	Power Switch Unit	Power Switch Unit	
011	USB to Main Board Cable	USB to Main Board Cable	
012	Keyboard to Printer board Cable	Keyboard to Printer board Cable	
013	LCD to Printer board Cable	LCD to Printer board Cable	

014	Switching Power Supply to Main Board Wire Harness	Switching Power Supply to Main Board Wire Harness	
015	Strip Carrier/Detection Unit to main board FFC	Strip Carrier/Detection Unit to main board FFC	
016	50-Pin Flat Cable	50-Pin Flat Cable	

## 5 Error messages, possible reasons and troubleshooting

Error message	Reason	Trouble shooting
Analyzer - no response	Fuse is blown	Replace fuse. Section 3.1.1.
	The input voltage of Switching Power Supply is abnormal.	Measure the input voltage of Switching Power Supply.
	Main board is damaged.	Replace main board Section 3.3.3.
Analyzer speaker on continuously	Main board is damaged.	Replace main board Section 3.3.3.
LCD - no display	The cable connecting LCD to Printer board is loose or damaged.	1. Reseat the cable connectors. 2. Replace with a new cable Section 3.4.2.
	The 50-pin flat cable connecting main board to Printer board is loose or damaged.	1. Reseat the cable connectors. 2. Replace with a new 50-pin flat cable. Section 3.4.1.
	LCD is damaged.	Replace with a new LCD. Section 3.4.3.
	Printer board is damaged.	Replace with a new Printer board. Section 3.5.2.
	Main board is damaged.	Replace main board. Section 3.3.3.
LCD display is abnormal.	Potentiometer adjusting on Printer board is not properly.	Adjust potentiometer on Printer board. Section 3.9.2.
	The cable connecting LCD to Printer board is loose or damaged.	1. Reseat the cable connectors. 2. Replace the cable Section 3.4.2.
	The 50-pin flat cable connecting main board to Printer board is loose or damaged.	1. Reseat the cable connectors. 2. Replace the 50-pin flat cable. Section 3.4.1.
	LCD is damaged.	Replace the LCD. Section 3.4.3.
	Printer board is damaged.	Replace the Printer board. Section 3.5.2.
	Main board is damaged.	Replace main board. Section 3.3.3.
The strip holder mount can't move	The strip holder mount is fallen off.	Replace the Strip Carrier and Detection Unit. Section 3.2.2.
	The strip holder mount is on the extreme limit of the Strip Carrier location and could not return to initial position during strip testing.	1. Replace the Strip Carrier and Detection Unit. Section 3.2.2. 2. Replace main board. Section 3.3.3.
	Stepper motor has bad contact with main board.	1. Reseat the cable connectors. 2. Replace the Strip Carrier and Detection Unit. Section 3.2.2.
	Strip Carrier and Detection Unit has bad contact with main board.	1. Reseat the cable FFC cable ends. 2. Replace the FFC. Section 3.2.1.
	Stepper motor is damaged.	Replace the Strip Carrier and Detection Unit. Section 3.2.2.

	The Optical AMP board is damaged.	Replace the Strip Carrier and Detection Unit. Section 3.2.2.
	Main board is damaged.	Replace main board. Section 3.3.3.
Main control unit failed	Main board is damaged.	Replace main board. Section 3.3.3.
Optical sensor failed	<ol style="list-style-type: none"> <li>1. White calibration circle is not clean.</li> <li>2. Strip Holder is positioned incorrectly on Strip Holder mount.</li> <li>3. The Strip Carrier and Detection Unit is damaged.</li> </ol>	<ol style="list-style-type: none"> <li>1. Clean the white calibration circle.</li> <li>2. Adjust Strip Holder to correct position.</li> <li>3. Replace the Strip Carrier and Detection Unit. Section 3.2.2.</li> </ol>
Strip Carrier and Detection Unit failed	The Strip Carrier and Detection Unit or Main board is damaged.	Replace the Strip Carrier and Detection Unit or Main board. Section 3.3.3.
Exceed light failed	<ol style="list-style-type: none"> <li>1. The Strip Holder Mount is not clean.</li> <li>2. The Strip Carrier and Detection Unit or Main board is damaged.</li> </ol>	<ol style="list-style-type: none"> <li>1. Clean the Strip Holder Mount.</li> <li>2. Replace the Strip Carrier and Detection Unit or Main board. Section 3.3.3.</li> </ol>
Keyboard abnormal	The cable connecting keyboard to Printer board is loose or damaged.	<ol style="list-style-type: none"> <li>1. Reseat the cable connectors.</li> <li>2. Replace the cable. Section 3.6.1.</li> </ol>
	The 50-pin flat cable connecting main board to Printer board is loose or damaged.	<ol style="list-style-type: none"> <li>1. Reseat the cable connectors.</li> <li>2. Replace the 50-pin flat cable. Section 3.4.1.</li> </ol>
	Keyboard is damaged.	Replace a new keyboard. Section 3.6.2.
	Printer board is damaged.	Replace with a new Printer board. Section 3.5.2.
	Main board is damaged.	Replace main board. Section 3.3.3.
Menu display failure	Main board is damaged.	Replace main board. Section 3.3.3.
Wrong configuration of Date/Time	Battery is out of power.	Replace the battery. Section 3.7.1.
	Bad contact between battery and battery seat	<ol style="list-style-type: none"> <li>1. Reinstall the battery.</li> <li>2. Replace main board. Section 3.3.3.</li> </ol>
	Main board is damaged.	Replace main board. Section 3.3.3.
Data transport incorrect or fails	Wrong Data Transfer cable	Use correct cable (user manual).
	Wrong computer transmission parameters	Reset correct parameter (user manual).
	Main board to USB board cable is loose or damaged.	<ol style="list-style-type: none"> <li>1. Reseat the cable connectors.</li> <li>2. Replace with a new cable. Section 3.8.1.</li> </ol>
	USB board is damaged.	Replace the Data Transfer Cable Unit. Section 3.8.2.

	Main board is damaged.	Replace main board. Section 3.3.3.
Internal printer does not work	The printer configuration is not set as “Internal”.	Set printer to “Internal” in menu.
	The printer to Printer board cable is loose or damaged.	1. Reseat the cable connectors. 2. Replace the cable, Section 3.9.1.
	Main board to Printer board cable (50-pin) is loose or damaged.	1. Reseat the cable connectors. 2. Replace with a new 50-pin flat cable Section 3.4.1.
	Printer head is not clean.	Clean the printer head.
	Printer head is damaged.	Replace printer head.
	Printer board is damaged.	Replace the Printer board. Section 3.5.2.
	Main board is damaged.	Replace main board. Section 3.3.3.
External printer abnormal	The printer is not set as “External”.	Set printer to “External” in menu.
	The external printer is not the proper type.	Use proper printer.
	Main board to printer cable is loose or damaged.	1. Reseat the cable connectors. 2. Replace the cable.
	Main board is damaged.	Replace main board. Section 3.3.3.
Barcode Reader abnormal	Main board to USB board cable is loose or damaged.	1. Reseat the cable connectors. 2. Replace with a new cable. Section 3.8.1.
	USB board is damaged.	Replace the Data Transfer Cable Unit. Section 3.8.2.
	Barcode Reader is damaged.	Replace the Barcode Reader.
	Main board is damaged.	Replace main board. Section 3.3.3.
Testing data incorrect	The Strip Holder Mount is not in proper location.	Install the strip holder mount as in user manual.
	The Strip Holder Mount is not clean.	Clean the strip holder mount as in user manual.
	The white calibration circle is not clean.	Clean the white calibration circle as in user manual.
	High and low frequency is abnormal.	Replace the Strip Carrier and Detection Unit. Section 3.2.2.
	The Optical AMP board is damaged.	Replace the Strip Carrier and Detection Unit. Section 3.2.2.
	Main board is damaged.	Replace main board. Section 3.3.3.

## 6. Cleaning and Maintenance

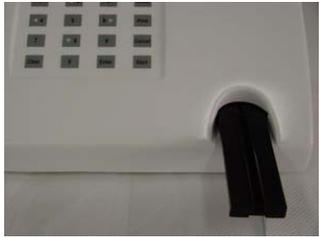
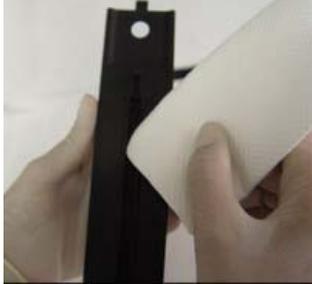
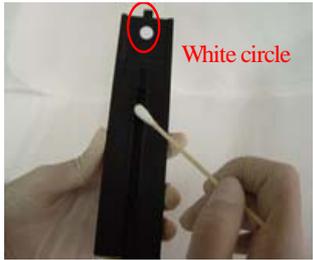
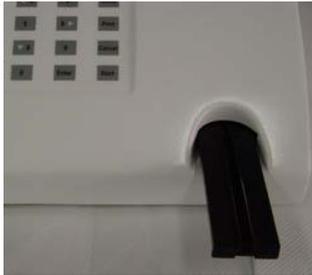
### 6.1 Daily Cleaning

Clean the strip holder channel with water after each use.

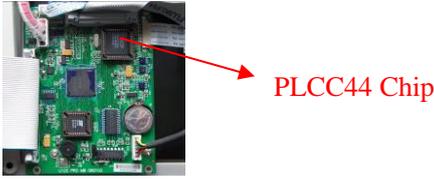
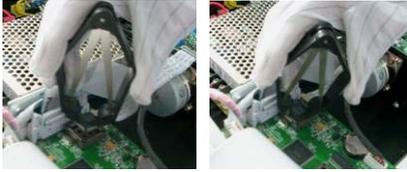
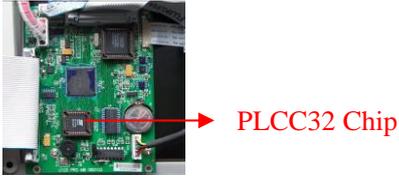
### 6.2 Periodic Cleaning (Urine deposit cleaning)

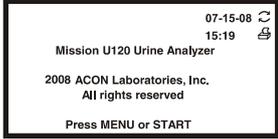
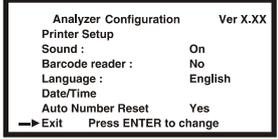
Clean the strip holder channel with 0.1 N NaOH.

(Warning: Do not allow the NaOH solution to touch the White Calibration Circle.)

Cleaning procedure			
Procedure	Figure	Procedure	Figure
1. Turn off the analyzer when the strip holder is fully extended.		4. Dry the strip holder with a clean, dry cotton ball or paper.	
2. Pull the Strip Holder backwards gently using the front two sides of Strip Holder as illustrated.		5. Insert the Strip Holder into the Strip Holder mount. When correctly positioned, the Strip Holder will snap in and be locked in place. The White Calibration Circle will not be visible.	
3. Clean the Strip Holder channel using a cotton swab or cotton ball with distilled water. (Do not touch the white calibration circle.)			

## 7. Language Chip Replacement Package Insert

Language Chip Replacement Package Insert	
Procedure	Figure
Open the upper Housing, refer to Section 3.1.2.1.	
Locate the PLCC44 Chip on the main board.	
Remove the original PLCC44 Chip from the holding socket with the PLCC extractor.	
<ol style="list-style-type: none"> <li>1. Insert the new PLCC44 Chip in the same direction as the original PLCC44 Chip.</li> <li>2. Press the PLCC44 Chip into the holding socket with fingers.</li> </ol>	
Locate the PLCC32 Chip on the main board.	
Remove the original PLCC32 Chip from the holding socket with the PLCC extractor.	
<ol style="list-style-type: none"> <li>1. Insert the new PLCC32 Chip in the same direction as the original PLCC32 Chip.</li> <li>2. Press the PLCC32 Chip into the holding socket with fingers.</li> </ol>	

<p>Close the Upper Housing, refer to Section 3.1.2.2.</p>	
<p>Plug the power cord into the analyzer and turn the Power Switch on.</p>	
<p>Press <b>MENU</b> on the keypad to display the MENU screen.</p>	
<p>Move the cursor to <b>Analyzer Configuration</b> and press <b>ENTER</b>. Choose proper language.</p>	

## **8. Detection Optimization**

- ◆ Detection Optimization will ensure that the analyzer-read results will be consistent with the visual-read results for one or more of the following analytes: Leucocyte, Nitrite, Urobilinogen, Protein, Blood, Ketone, Bilirubin, Glucose and Ascorbic Acid. Specific Gravity and pH detection is determined by qualitative values. Contact technical support for more details on optimizing the detection of the U120 Urine Analyzer.