# URIT-500C

# Urine Analyzer

# Training Manual

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# 1 Introduction

## 1.1 Appearance




Picture 1-1 Front Panel

**1.** LCD: All communication between the operator and the analyzer is through the LCD screen.
**2.** Keys: Used to input the relevant information.
**3.** Push Bar: Transfers the reagent strip.
**4.** Fixed Platform: Loads the reagent strips.
**5.** Waste Salver: The used strips are removed into the waste salver.
**6.** Moveable Cover: You can discharge the moveable cover to conveniently clean the fixed platform and floating panel.
7. Printer: Test results are printed by the internal thermal printer.



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**1.** Parallel Interface: Standard 25-pin interface for external printer.
**2.** PS/2 Port: For bar code scanner.
**3.** Serial Interface: RS232, Standard 9-pin interface for exporting data.
**4.** Power Plug: Standard IEC 3-cord power plug with a fuse (T800mA time-lag).
**5.** Power Switch: Turns on or off the power supply.
**6.** Fan: Cools the analyzer.

# 2 Installation

## 2.1 Unpacking and Inspection

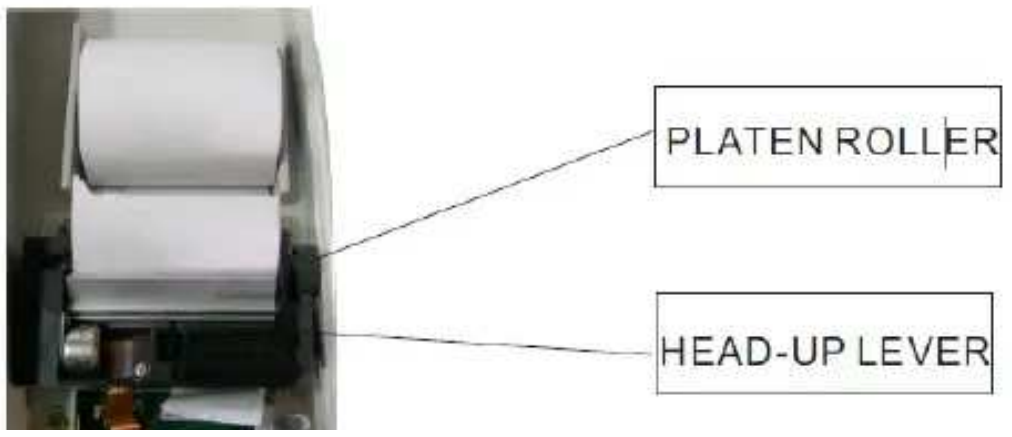
Check the contents of the accessories according to the packing list.

## 2.2 Choosing Proper Location

**1.** Install the analyzer on a clean, level and firm workbench, which is free from vibration, direct sunlight, intensive magnetic field and moisture.
**2.** Prolonged exposure to excessive humidity and temperature should be avoided. The optimum temperature range for operating the analyzer is 20 ~26 , and the relative humidity should be less than 80%. Air conditioner is recommended.
**3.** Keep the analyzer away from open windows, ovens, hot source and explosive atmosphere.

## 2.3 Installation of Printer Paper

**1.** Lift the printer cover by pressing the lock on the back of the printer cover.

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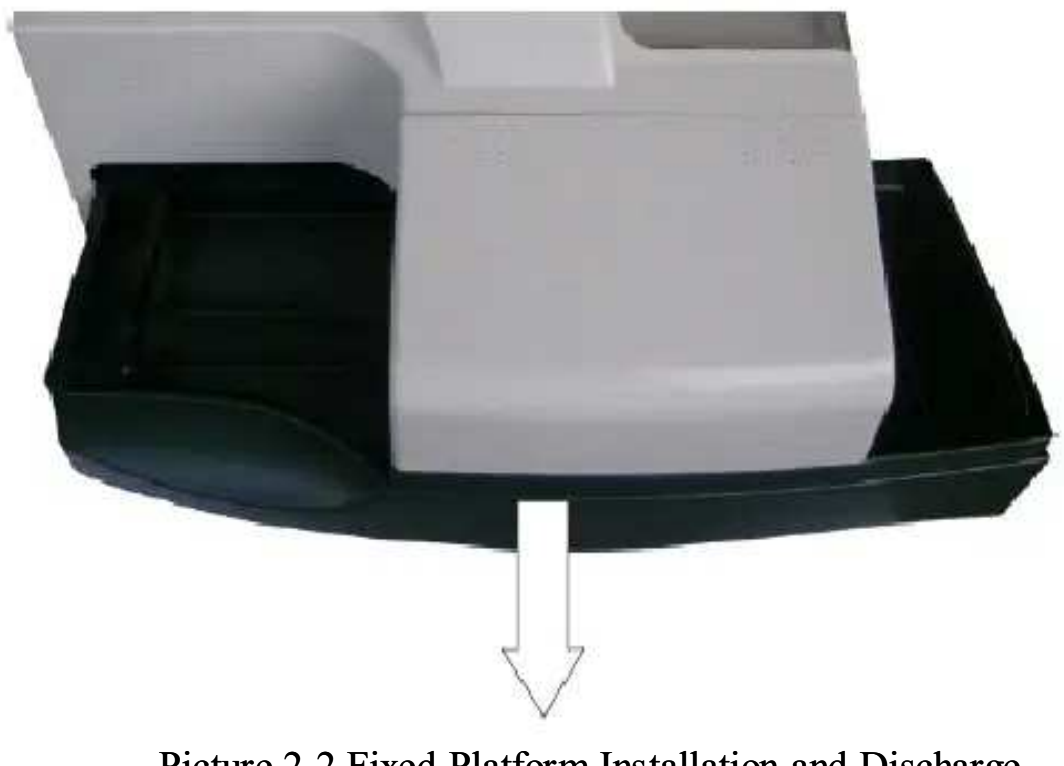
## 2.4 Push Bar Installation

Hold the end of the push bar, with this end slightly upward, insert the other end into the hole in the Pusher mechanism. Lower the push bar.

## 2.5. Installation and Discharge of Fixed Platform

**1.** Discharge: Hold the two sides of the platform and pull it towards the operator, shown in Picture 2-2

**2.** Installation: Align the two grooves of the platform with the arms of the analyzer push the platform in as far as it will go. It must be pushed past a detent to be correctly positioned.



Picture 2-2 Fixed Platform Installation and Discharge

## 2.6 Installation and Discharge of Floating Panel

**1.** Discharge: ll the floating panel towards the operator, shown in Figure 6.

**2.** Installation: Aim the quadrate hole on the floating panel at the center of the fixed platform. Align the protuberant edge of the floating panel with the groove of ixed platform and push the floating panel slowly as far as it will go.

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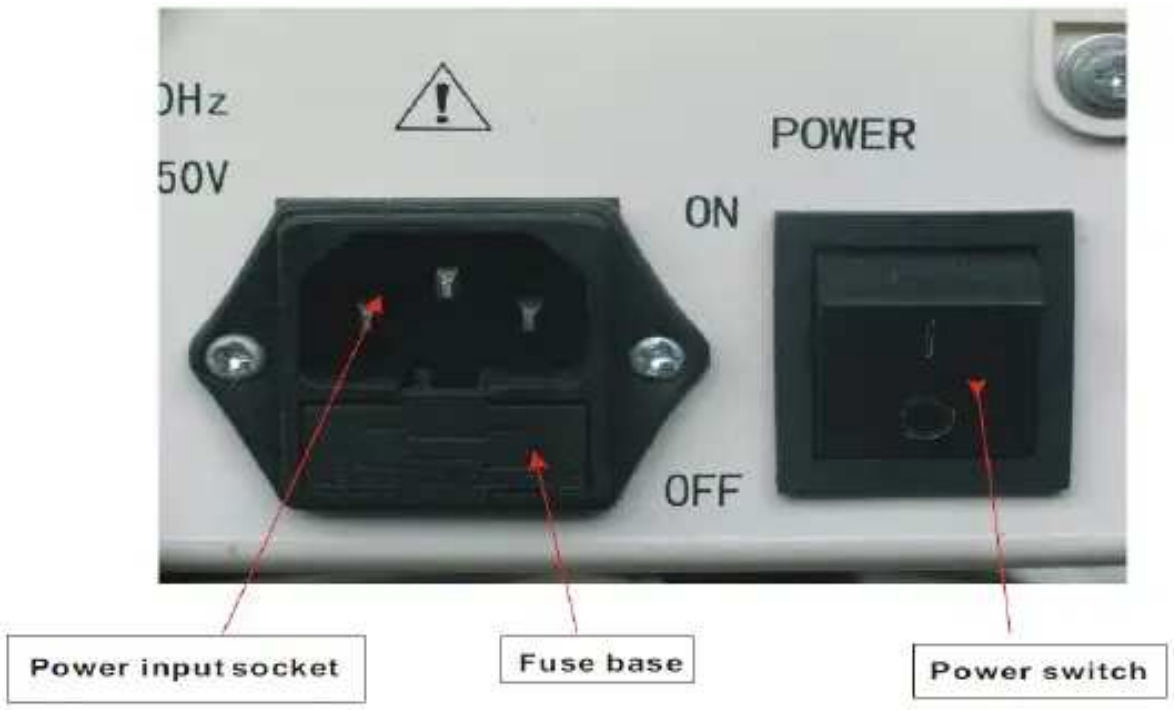
A bar code scanner is available for use with the analyzer via the PS/2 port. You can enter the identification number from barcoded labels, rather than manually entering each number before the sample is tested.

### 2.8 Power Connection




Picture 2-4 Power Connection

**Notice:**

**1.** Check whether the supply voltage is AC220V±22V, if the voltage is not stable, UPS or high quality manostat are recommended to be used.

**2. Before connecting make sure the power switch is off. The end with icon O is off.**

**3.** Connect the instrument and the socket with power line.

# 3 Operation Instruction

## 3.1 Start Up

After finishing the system testing, the analyzer get into the standby interface as the following picture shows:

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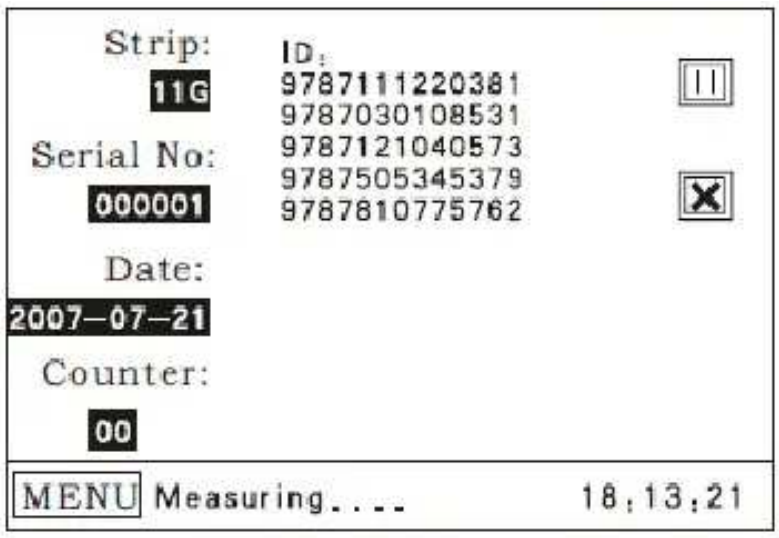
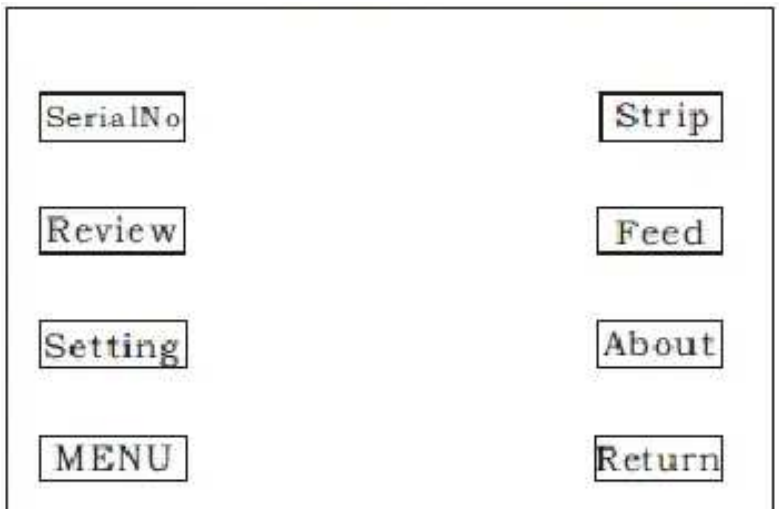
You can import the identification number from bar code reader. Maximum ten numbers will be accepted at a time, which will be displayed on the standby screen, as shown in Picture3-2. You can delete them by pressing the key, if need.




Picture 3-2 Bar Code Input

### 3.3 Setup

Enter the **Main Menu** from the standby screen by pressing the **MENU** key. The Main Menu shows as the following picture

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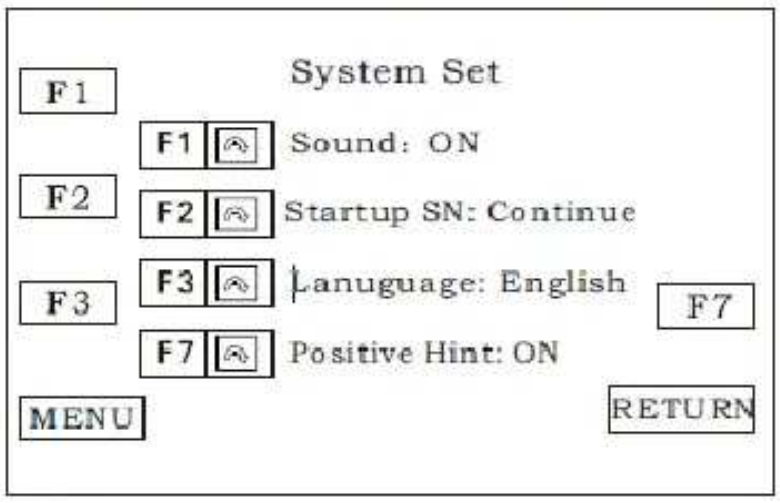
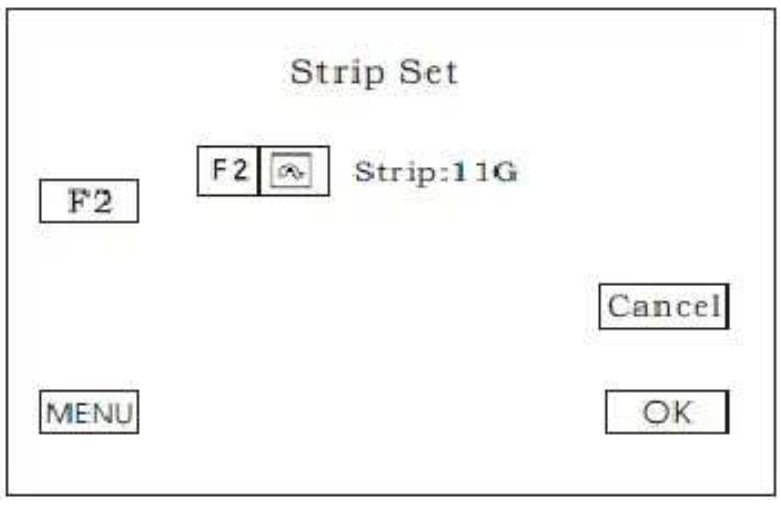
**[Initiate]**

Pressing the **Initiate** key, a password screen is display. Enter the password: "12345" , then you can select the testing speed between **High** and **Normal**. Normal speed is default. If you choose **High** speed, the message of "**High speed...** " will display on the **Ready** screen, in place of "Measuring...", as shown in Figure 11.The push bar will move continuously when the **Counter** is more than "1", and be back to normal status when the **Counter** is "0".

**[System]**




**1. Set Strip**




Press the **Strip** key from the **Main Menu** to select appropriate strip type by pressing the F2. Three options are available: 10G, 11G and 13 G, showing in the above picture.

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### 3.4 Sample Test

Before starting each testing, pay attention to the following tips:

**1.** Make sure that your strips being used are the Uritest series urine reagent strips. **Use of any reagent strips other than the specified Uritest series urine reagent strips will cause erroneous results.** You can select desired strip type by pressing the **Strip** key from the **Main Menu**.

**2.** Inspect the push bar and fixed platform for correct installation and cleanliness. If contamination exists, discharge the movable cover and clean as described

**3.** Check the serial number, date and time displayed on the **Ready** screen. Change them if desired.

**4.** Completely dip a Uritest Series Urine Reagent Strip into fresh, well-mixed, and uncentrifuged urine, then slowly draw it out along the container wall, using tissue forexcess urine, but not too dry.

**5.** Place the reagent strip on the fixed platform as the following picture shows:



Picture3-3 Sample Testing

### 3.5 Calibration

You should use the Uritest check strip to perform calibration for the analyzer frequently. There are two check strips that come with the analyzer. One is for daily use, and the other for standby use. Compare the check strip results with the reference value. If the results are consistent, it means the analyzer is in order and can be used for routine testing. If not, use the other check strip for calibration again. If the results are not consistent yet, check whether malfunction occurs and solve it.

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**2.** Clean the fixed platform, push bar and floating panel with alcohol and detergent.
**3.** Align the two grooves of the moveable cover with the edges of the upper



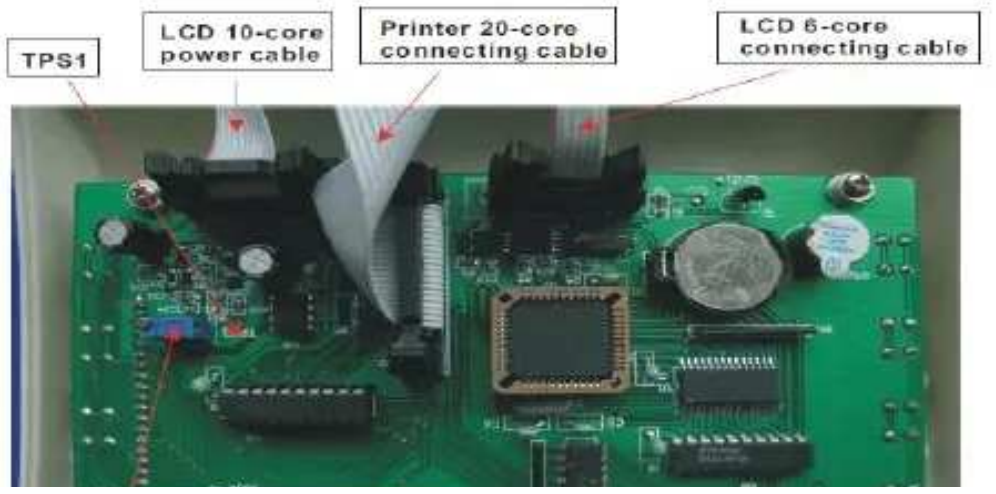
Picture-4-1 Cleaning

**Notice:**

**1.** Organic solution is forbidden for use because it will cause distortion to the analyzer.
**2.** Do not wipe the white calibration block on the fixed platform. You may use tampon dipped with plain water to clean it and let it air dry.
**3.** Inspect the white calibration block for distortion and damage. If it was distorted or damaged, replace the fixed platform.

# 5 System Introduction

## 5.1 LCD Connection Cables

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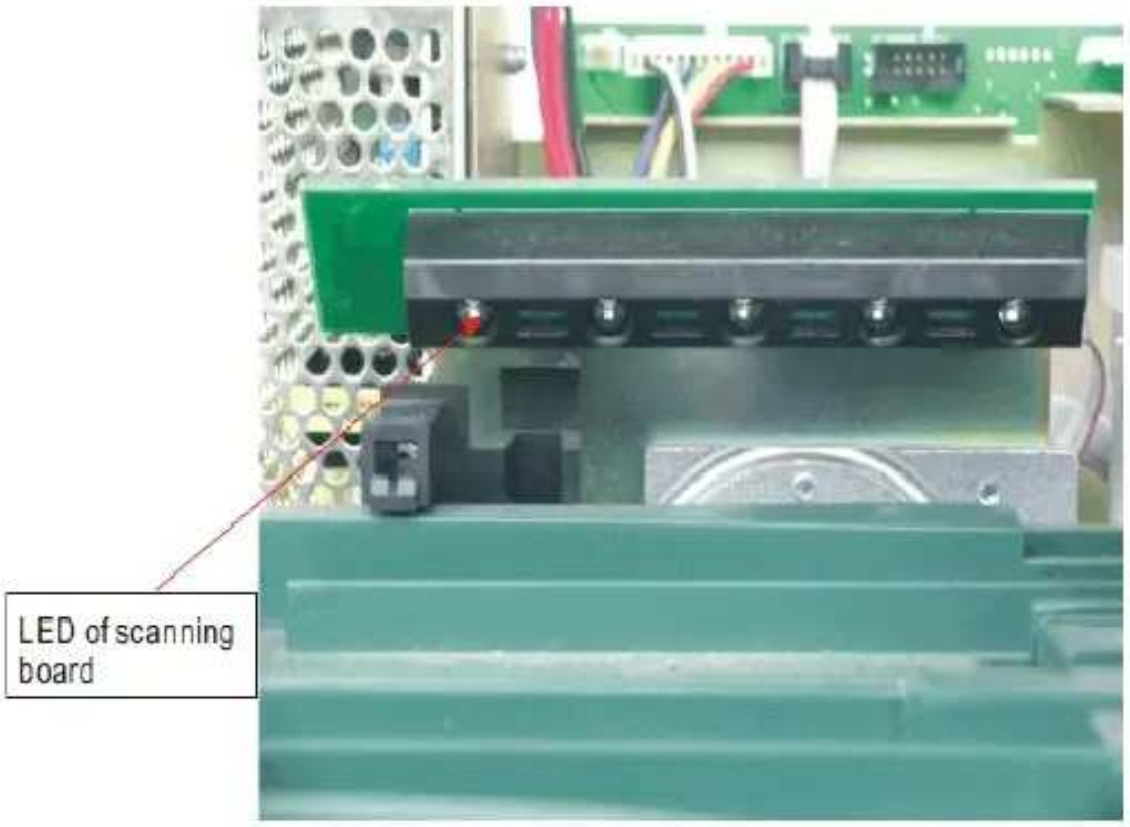
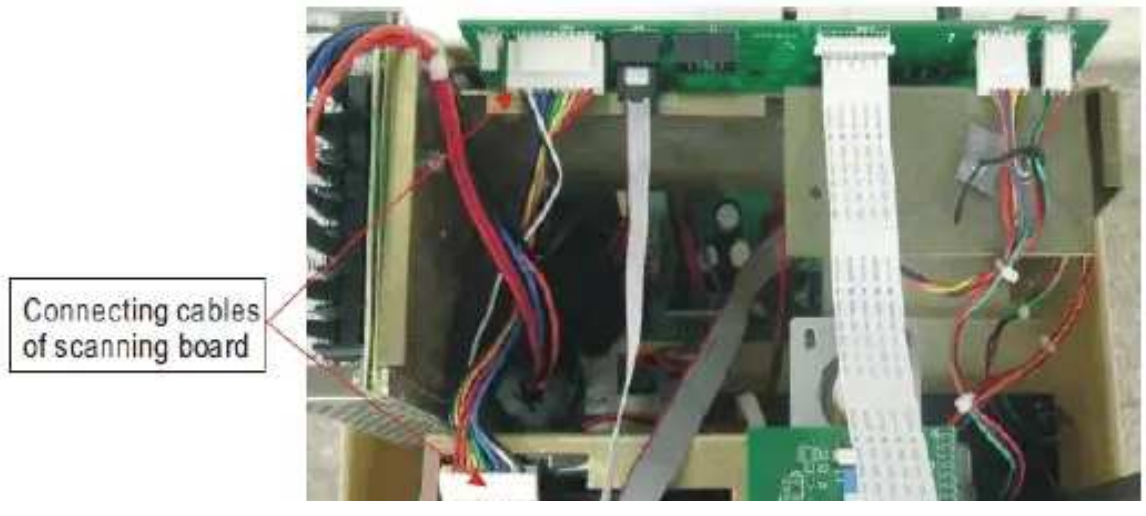
## 5.2 LED Scanning Board




## 5.3 Main Data Cables

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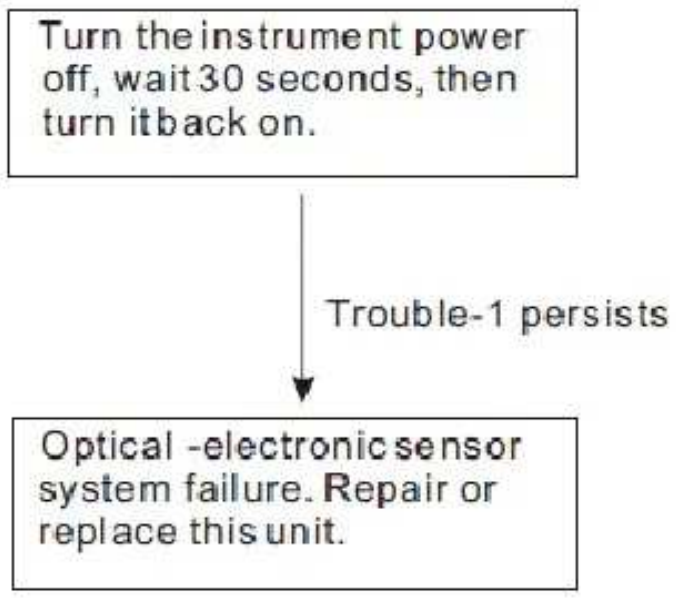
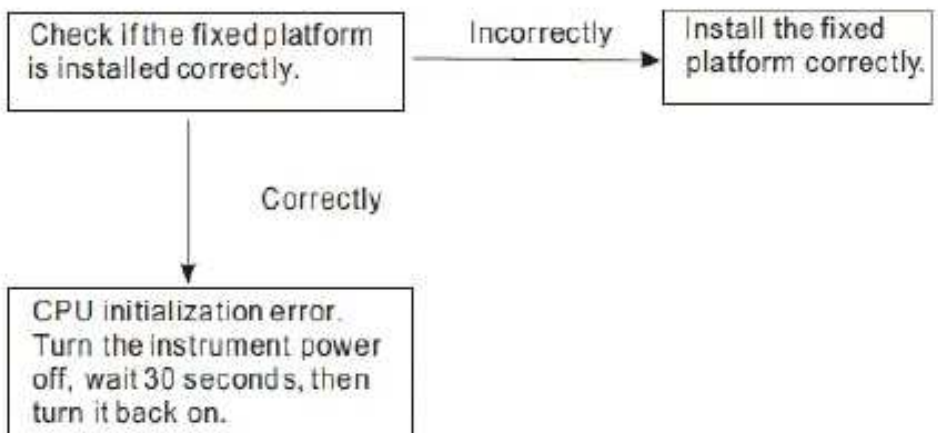
# 6 Troubleshooting

## 6.1 Strip Sensor Problem




Picture 6-1 Trouble One

## 6.2 Improper Installation of Fixed Platform

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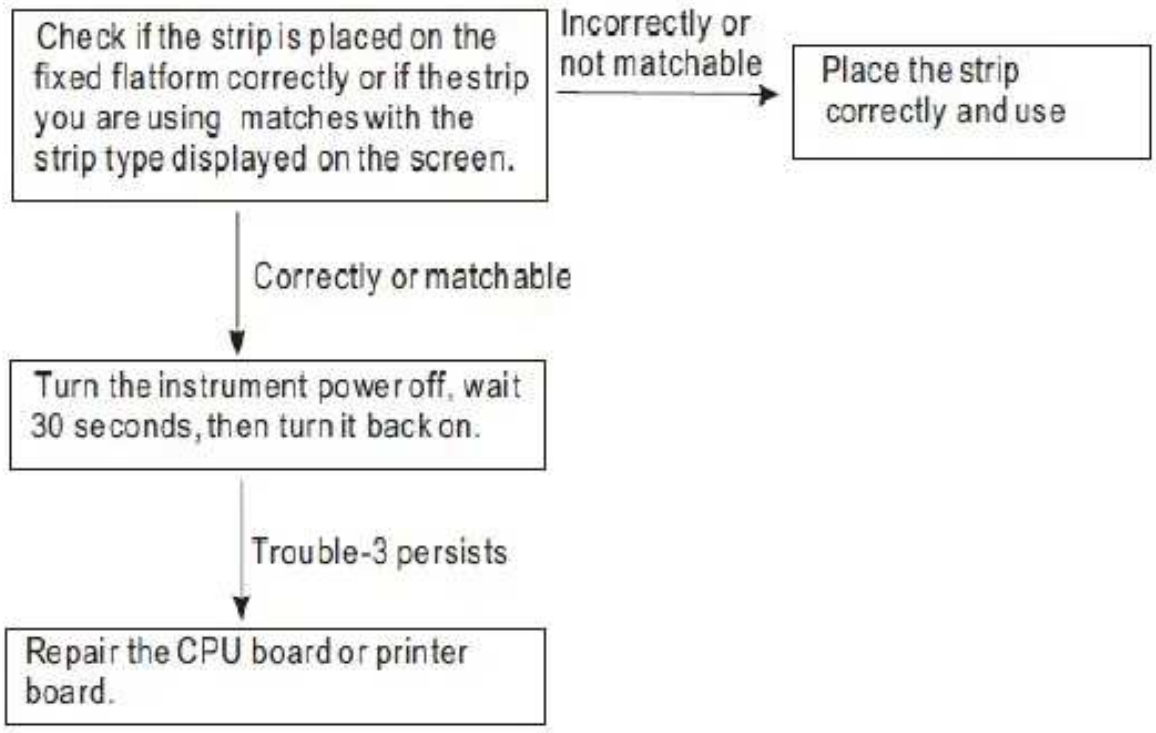
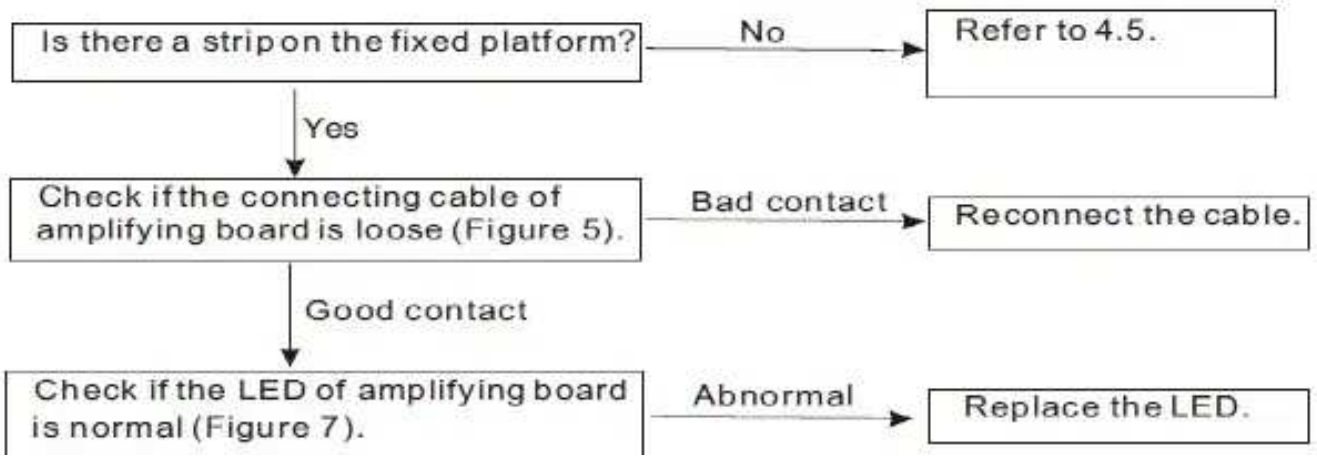
## 6.3 Improper Position of Reagent Strip




Picture 6-3 Trouble Three

## 6.4 No strip is sensed or the optical system error

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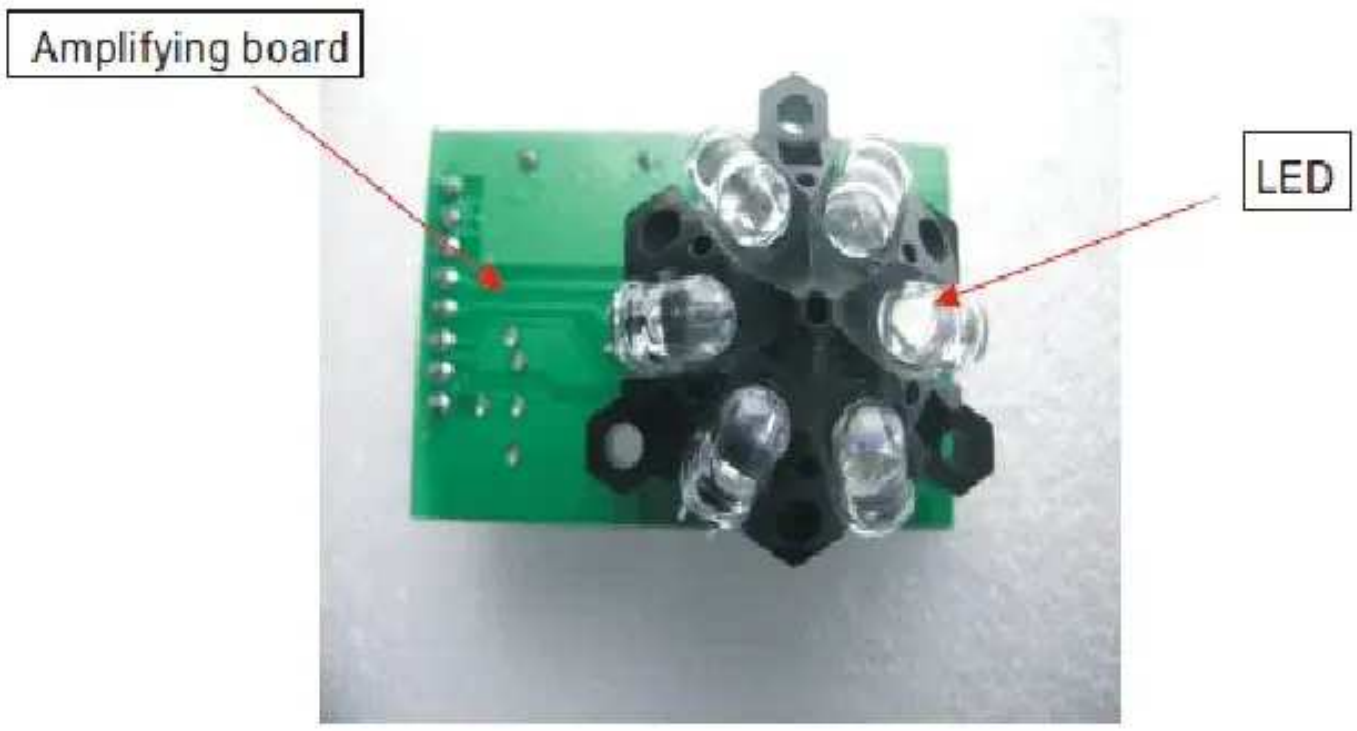
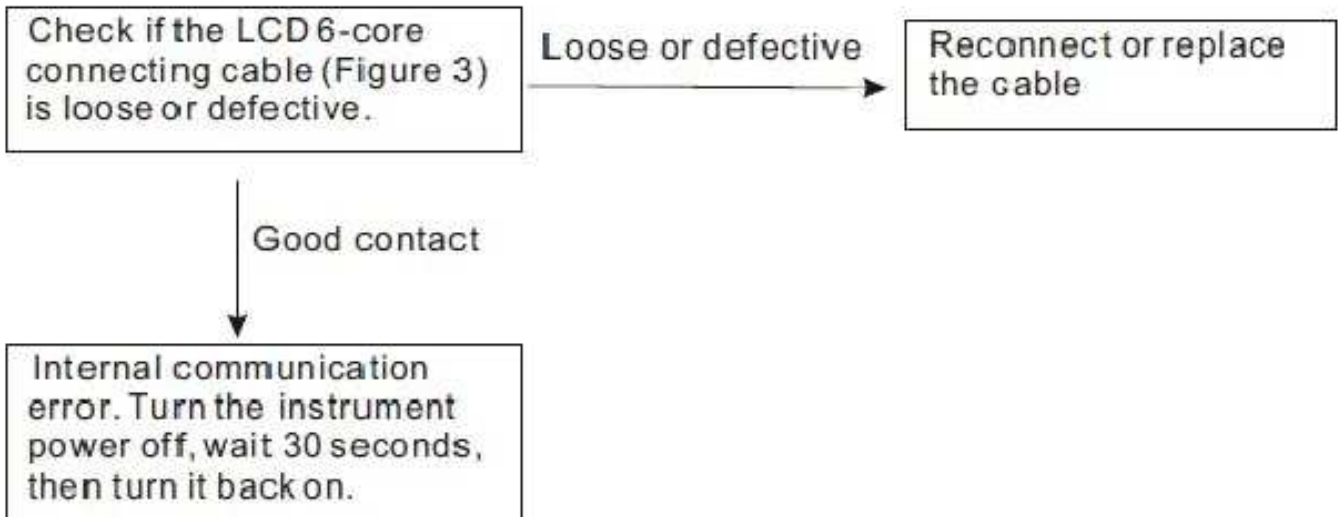



Picture 6-4 Trouble Four

## 6.5 Internal Communication Error

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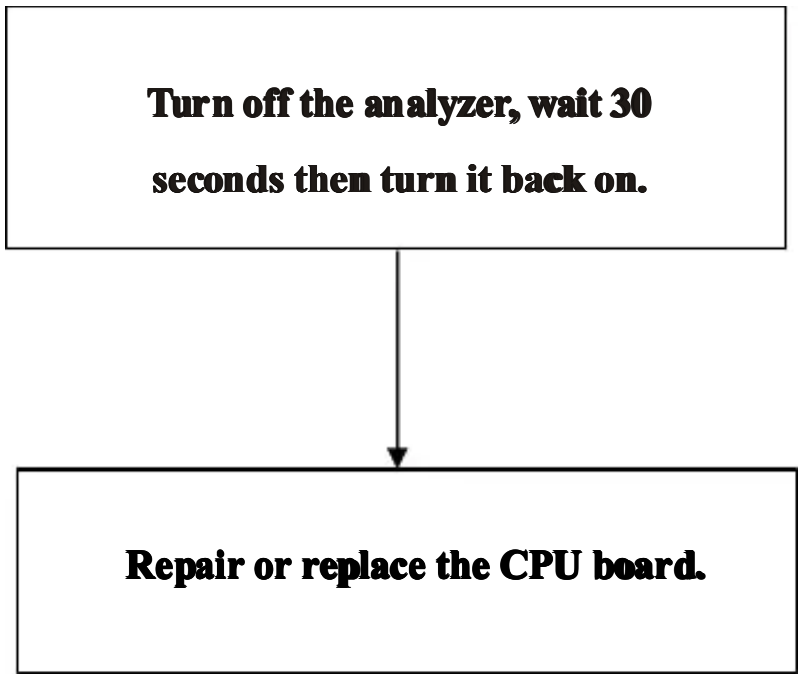
### 6.6. Internal Memory Error




Picture 6-6 Trouble Six

## Appendix (Symbols and Data)

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| 10 | 11 | 13 | Test | SemiQuantitative Symbol and Concentration | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ● | ● | ● | WBC | SemiQuantitative | — | ± | +1 | +2 | +3 | |
| | | | | Cell/μL | 0 | 15 | 70 | 125 | 500 | |
| ● | ● | ● | Ketone | SemiQuantitative | — | ± | +1 | +2 | +3 | |
| | | | | mmol/L | 0 | 0.5 | 1.5 | 4.0 | ≥8.0 | |
| ● | ● | ● | Nitrite | SemiQuantitative | — | + | | | | |
| ● | ● | ● | Urobilinogen | SemiQuantitative | Normal | | +1 | +2 | +3 | |
| | | | | μmol/L | | | 33 | 66 | ≥131 | |
| ● | ● | ● | Bilrubin | SemiQuantitative | — | | +1 | +2 | +3 | |
| | | | | μmol/L | 0 | | 8.6 | 33 | 100 | |
| ● | ● | ● | Protein | SemiQuantitative | — | ± | +1 | +2 | +3 | |
| | | | | g/L | 0 | 0.15 | 0.3 | 1.0 | 3.0 | |
| ● | ● | ● | Glucose | SemiQuantitative | — | ± | +1 | +2 | +3 | +4 |
| | | | | mmol/L | 0 | 2.8 | 5.5 | 14 | 28 | ≥55 |
| ● | ● | ● | Specific Gravity | | 1.005 | 1.010 | 1.015 | 1.020 | 1.025 | 1.030 |
| | | | | | | | | | | |
| ● | ● | ● | Occult Blood | SemiQuantitative | — | ± | +1 | +2 | +3 | |
| | | | | Cell/μL | 0 | 10 | 25 | 80 | 200 | |
| ● | ● | ● | pH | 4.5 | 5.0 \| 5.5 | 6.0 \| 6.5 | 7.0 | 7.5 \| 8.0 | 8.5 | 9.0 |
| | ● | | Ascorbic Acid | SemiQuantitative | — | ± | +1 | +2 | +3 | |
| | | | | mmol/L | 0 | 0.6 | 1.4 | 2.8 | 5.6 | |
| | | ● | Creatinine | SemiQuantitative | * | | | | * | |
| | | | | mmol/L | ≤0.9 | 4.4 | 8.8 | 17.6 | ≥26.4 | |
| | | ● | Urine calcium | SemiQuantitative | * | | | | * | |
| | | | | mmol/L | ≤1.0 | 2.5 | 5.0 | 7.5 | ≥10 | |
| | | ● | Micro albumin | SemiQuantitative | | * | | | | |
| | | | | mg/L | 0 | ≥100 | | | | |

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- Personalize our editorial content based on your navigation
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