

# **washwell PLATE**

## ELISA Plate Washer

### User Manual

**Version – 5.2**



ROBONIK (INDIA) PVT. LTD.  
Plot No.: A-374, TTC, MIDC Industrial Area,  
Mahape, Navi Mumbai – 400 710. (INDIA)  
Tel.: +91 (22) – 67829700, Fax : +91 (22) – 67829701  
Email-sales@robonikindia.com  
Website-www.robonik.in

**TABLE OF CONTENTS**

<b>1. GENERAL INFORMATION .....</b>	<b>5</b>
1.1. WARRANTY INFORMATION:.....	6
1.2. TECHNICAL SERVICE: .....	6
1.3. DISPOSAL INSTRUCTION:.....	6
1.4. CONTACTS: .....	6
<b>2. GENERAL SAFETY WARNINGS.....</b>	<b>7</b>
2.1. DANGER – WARNING SYMBOLS .....	8
2.2. USE OF THE INSTRUMENT:.....	9
<b>3. INTRODUCTION.....</b>	<b>10</b>
3.1. DESCRIPTION:.....	11
3.2. SPECIAL FEATURES: .....	11
3.3. SPECIFICATIONS: .....	12
<b>4. PACKING, TRANSPORT AND STORAGE.....</b>	<b>13</b>
4.1. PACKING: .....	14
4.2. INSTRUMENT TRANSPORTATION:.....	14
4.3. STORAGE OF THE INSTRUMENT:.....	14
<b>5. INSTRUMENT DESCRIPTION .....</b>	<b>15</b>
5.1. PERSPECTIVE VIEW:.....	16
5.2. REAR PANEL VIEW:.....	16
5.3. TUBING DIAGRAM:.....	17
5.4. KEYBOARD: .....	18
5.5. MICRO-PLATE CARRIAGE:.....	18
5.6. PRIMING AND RINSING AREA:.....	19
5.7. MANIFOLD: .....	19
<b>6. INSTALLATION AND START-UP INSTRUCTIONS.....</b>	<b>20</b>
6.1. PLACING THE INSTRUMENT:.....	21
6.2. POWER SUPPLY: .....	21
6.3. PROTECTIVE GROUNDING: .....	21
6.4. START UP INSTRUCTIONS .....	21
6.5. SETTING DATE AND TIME: .....	22
6.6. WASTE BOTTLE CONNECTIONS: .....	22
6.7. RINSING STRIP:.....	22
<b>7. PRECAUTIONS.....</b>	<b>23</b>
7.1. PRECAUTIONS:.....	24
<b>8. GENERAL KEY OPERATIONS .....</b>	<b>25</b>
8.1. FUNC KEY .....	26
8.1.1. <i>Deleting the Test</i> .....	27
8.1.2. <i>Setting Date and Time</i> .....	27
8.1.3. <i>Storing the Test</i> :.....	27

8.2. MENU KEY: .....	28
8.2.1. <i>Recalling the saved test:</i> .....	28
8.3. PRIME KEY: .....	28
8.4. RINSE KEY: .....	28
8.5. TIMER KEY: .....	28
<b>9. PROGRAMMING .....</b>	<b>29</b>
9.1. PLATE WASH: .....	30
9.2. STRIP WASH: .....	31
9.3. INCUBATION: .....	32
9.4. BOTTOM WASH: .....	33
9.5. OVERFLOW WASH / TOP WASH .....	34
9.6. PRIMING: .....	34
9.7. RINSING : .....	34
9.8. SHAKING: .....	35
9.9. DISINFECTION .....	35
<b>10. TROUBLESHOOTING .....</b>	<b>36</b>
10.1. TROUBLESHOOTING: .....	37
<b>11. DECONTAMINATION .....</b>	<b>38</b>
11. DECONTAMINATION: .....	39
11.1. PURPOSE OF DECONTAMINATION: .....	39
11.2. GENERAL CONSIDERATIONS: .....	39
11.3. DECONTAMINATION PROCEDURE: .....	39
<b>12. SAFETY CLEARANCE CERTIFICATE: .....</b>	<b>40</b>

The contents of this manual with all figures, tables and graphics are intellectual property of ROBONIK (INDIA) PVT. LTD. Unauthorized commercial or non-commercial excerption or copying of contents and use of this manual (in total or in parts) are strictly forbidden unless the editor gives written permission for it.

**washwell PLATE** manual was written and produced with the utmost care. However, errors cannot be fully excluded. Robonik does not take any responsibility and accept no liabilities of any kind that may occur because of errors in the manual.

Manufacturer:

**ROBONIK (INDIA) PVT. LTD.**

Plot No.: A-374, TTC, MIDC Industrial Area,  
Mahape, Navi Mumbai - 400 710. (INDIA)

Tel.: +91 (22) - 67829700

Fax : +91 (22) - 67829701

Email-sales@robonikindia.com

Website-www.robonik.in

**washwell PLATE**

Version – 5.2

# **1. GENERAL INFORMATION**

- ◆ 1.1. Warranty information
- ◆ 1.2. Technical service
- ◆ 1.3. Disposal instruction
- ◆ 1.4. Contacts

## **1.1. Warranty Information:**

Each Instrument is completely tested and guaranteed for twelve months from delivery. The warranty applies to all the mechanical and electrical parts. It is valid only for proper installation, use, and maintenance in compliance with the instructions given in this manual.

ROBONIK will, at its discretion repair or replace parts, which may be found defective in the warranty period. The warranty does not include any responsibility for direct or indirect personal and material damages, caused by improper use or maintenance of the instrument.

Parts that are inherently subject to deterioration are excluded from the warranty. In case of defects due to misuse of the instrument, any travel and man-hour expenses will be charged extra.

In case of Tenders warranty would be as per tender terms and conditions.

## **1.2. Technical Service:**

ROBONIK is always accessible to the customers for any kind of information about installation, use, maintenance, etc. When asking for service, please refer to this manual, and report the data reported on the identification label (Serial No. and Model Name).

Only qualified technicians are entitled to fix the instrument; the user, as described in this manual, should carry out ordinary maintenance.

ROBONIK's technical service or an authorized service center with specialized technicians, with suitable instrumentation and original spare parts are always available for extraordinary maintenance (repair), under an annual maintenance contract or on specific demand.

## **1.3. Disposal instruction:**

In case of removal or disposal of instrument, following instructions need to be followed

- Do not dispose in municipal waste; follow local regulations for instrument disposal.
- Plastic parts, Electronic PCBs and components can be recycled, so return back the instrument to manufacturer.

## **1.4. Contacts:**

### **Manufacturer:**

ROBONIK (INDIA) PVT LTD  
A-374, TTC, MIDC Industrial Area,  
MAHAPE, NAVI MUMBAI -400710  
INDIA

Tel: +91-22-67829700,  
Fax: +91-22-67829701

Email: [sales@robonikindia.com](mailto:sales@robonikindia.com)  
Website: [www.robonik.in](http://www.robonik.in)

### **European Authorized Representative**

Obelis s.a  
34, Av. de Tervuren, bte 44  
B-1040 Brussels, BELGIUM  
Tel: (32) 2. 732.59.54  
Fax: (32) 2.732.60.03  
E-Mail : [mail@obelis.net](mailto:mail@obelis.net)



## **2. GENERAL SAFETY WARNINGS**

- ◆ 2.1. Danger – warnings symbols
- ◆ 2.2. Use of the instrument

## 2.1. Danger – Warning symbols

The following symbols are used to inform the user of the safety rules.



This symbol indicates generic danger. It means that, serious damage can occur to the operator if described precautions are not observed.



This symbol indicates HIGH ELECTRIC VOLTAGE. It is dangerous to touch any part having this label. Only qualified operators can access these components, after unplugging the instrument from the Supply.



This symbol indicates that the instrument makes use of chemical reagents and other dangerous (Corrosive, irritant, or harmful) CHEMICAL SUBSTANCES, which can cause damage to people or materials. When this label is found, pay attention to the manufacturer's recommendations.



This symbol indicates that the instrument involves the handling of samples, which can be infected (urine or human serum). In this condition, infection or contamination might occur. Pay attention to the general safety warnings when in presence of such biological substances. Use Protective clothes, gloves and glasses.



This symbol in the user manual indicates that damages to the instrument or erroneous results could occur if the given warnings are not followed.



This symbol indicates a portion, which is particularly important, and should be studied carefully.



This symbol indicates a Protective Earth or Ground terminal.

### General Symbols



Symbol for "Manufacturer"





Symbol for "IN VITRO DIAGNOSTIC MEDICAL DEVICE"



Symbol for "AUTHORISED REPRESENTATIVE IN THE EUROPEAN COMMUNITY"



## 2.2. Use of the instrument:

- The instrument should be used for the designed purposes only and under specified conditions by qualified personnel, following proper procedures and safety rules provided in this manual.
  - **THIS MANUAL CONTAINS INSTRUCTIONS FOR OPERATION BY QUALIFIED PERSONNEL ONLY.**
  - A qualified user has to make sure that environmental condition is suitable, the installation is correct, the use and maintenance is proper, according to the general safety rules as well as to the particular precautions described in the manual (However the user is not entitled to repair the instrument).
  - A qualified technician only, is entitled to maintain and fix the instrument, according to the instructions given in this manual, using the original spare parts only.
  - The room temperature and humidity should be maintained as specified in the manual.
  - The instrument has to be used as described in this manual. If it is not use the protection provided by the instrument may be impaired.
  - **Alterations to the instrument by unauthorized personnel are strictly prohibited. The user is liable & solely responsible for any improper modification to the instrument, and for the consequences derived as a result.**
  - Should the instrument need extraordinary maintenance, please contact Robonik service or an authorized service center. Specialized technicians equipped to repair the instrument using original spare parts will carry out the maintenance.
  - This IVD equipment complies with the emission and immunity requirements as per IEC61326 series.
-  ➤ **Warning** : This equipment has been designed and tested to CISPER11 Class A. In a domestic environment it may cause radio interference, in which case, you may need to take measures to mitigate the interference."
- An advisory that the electromagnetic environment should be evaluated prior to operation of the device.
-  ➤ **Warning** : Do not use this device in close proximity to sources of strong electromagnetic radiation (e.g. unshielded international RF sources), as these may interfere with the proper operation.

## **3. INTRODUCTION**

- ◆ 3.1. Description
- ◆ 3.2. Special Features
- ◆ 3.3. Specifications

## **3.1. Description:**

**washwell PLATE** is a versatile, user friendly & rugged instrument designed by keeping both quality and price in view. The instrument is simple, yet versatile as it uses the state of art hardware for its components. It is intended for in vitro diagnostic use.

## **3.2. Special Features:**

- Built in two plate ELISA incubator
- User programmable soak time, wash cycles and dispensing volume.
- Battery backed up memory for 50 tests.
- Waste bottle full indicator with audible alarm.
- Built-in stabilizer.
- State of art equipment with versatile software.
- Real time clock.
- Continuous aspiration to prevent overflow.
- Loosely held Manifold to prevent scratching of well bottoms.
- Uses special software to aspirate “U” shaped, “V” shaped, and wide wells.
- **On switching ‘OFF’ the instrument, it performs RINSE operation first and then instrument automatically gets off.**

**3.3. Specifications:**

Manifold	8 Way Manifold autoclavable
Dispensing Method Volume	Specially designed Peristaltic Pump 50 - 500 µl
Aspirating Method Residual Volume	Continuous through diaphragm pump while dispensing hence preventing overflow < 5 µl
Waste Bottle	One (Capacity 2 liters) with audible alarm when bottle is completely filled in with waste solution
Wash Bottle	One (Capacity 2 liters)
Rinse Bottle	One (Capacity 2 liters)
Display	16 digit alphanumeric fluorescent
Liquid contact materials	Silicon, stainless steel, derline
Memory	8 KB Non volatile RAM Battery backup, supporting 35 Open channels
Programming Modes	Plate Wash Strip Wash Bottom Wash Overflow Wash Rinsing Priming Disinfect
Shaking Time Speed	1 to 59 Seconds 8 Steps
Incubator	For two ELISA Plates, 37 <sup>0</sup> C
Timer	Individually Programmable 2 Nos.
Power Wattage Voltage	50 Watts 115-240 Volts ± 10%, 50 /60 Hz
Operating Position	On horizontal, rigid, flat and vibration free surface
Operating Conditions Temperature Humidity	+18 <sup>0</sup> C to 35 <sup>0</sup> C Up to 85 %
Storage Conditions Temperature Humidity	- 10 <sup>0</sup> C to 60 <sup>0</sup> C Up to 85 %
Enclosure	ABS Fire retardant
Size (cms)	35 X 35 X 13 (l X b X h)
Weight	6 Kg. (Approx)

## **4. PACKING, TRANSPORT AND STORAGE**

- ◆ 4.1. Packing
- ◆ 4.2. Instrument Transportation
- ◆ 4.3. Storage of the Instrument

## **4.1. Packing:**

Packaging of the instrument is needed whenever to be transported or shipped by courier or other means.

To pack the instrument please follow the instructions as below described:

- Decontaminate the instrument as explained in chapter 11 of this manual.
- Put the instrument into the original packaging box; Instrument has to be properly protected by plastic protective material. Put copy of safety clearance certificate (copy of Safety clearance certificate is attached at the end of this manual).
- Mark the package with address, instrument identification and warning labels.

## **4.2. Instrument transportation:**

The transportation of the instrument in unpacked condition must be limited within the room where it is used, to avoid damage.

## **4.3. Storage of the Instrument:**

Before storing the instrument for a long period, please pack it carefully as described above and store indoors.

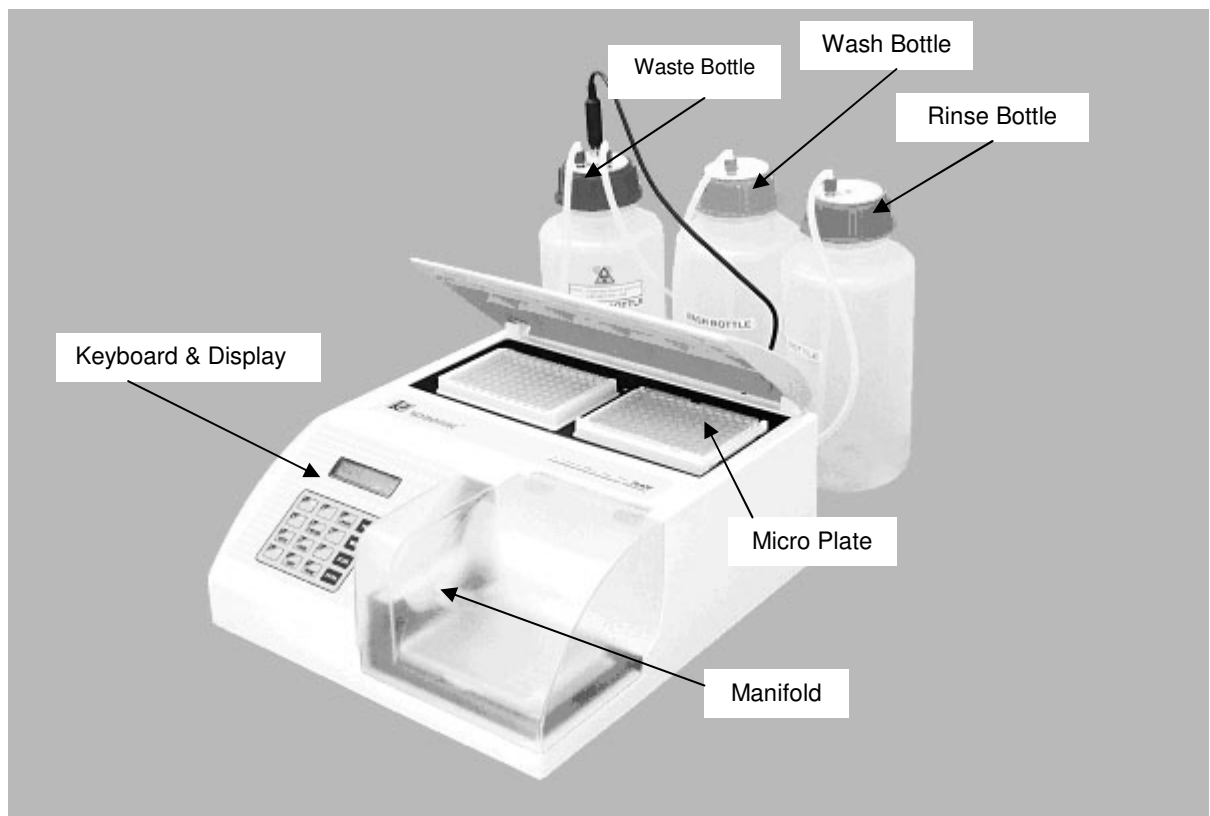
## **5. INSTRUMENT DESCRIPTION**

- ◆ 5.1. Perspective view
- ◆ 5.2. Rear panel view
- ◆ 5.3. Tubing diagram
- ◆ 5.4. Keyboard
- ◆ 5.5. Micro-plate carriage
- ◆ 5.6. Priming and rinsing area
- ◆ 5.7. Manifold

Different views of the instrument in picture below:

## **5.1. Perspective View: Front view**

- Display,
- Alphanumerical key-pad
- Wash Bottle
- Waste Bottle
- Rinse Bottle



## **5.2. Rear Panel View:**

**(Please refer diagram of point No. 5.3)**

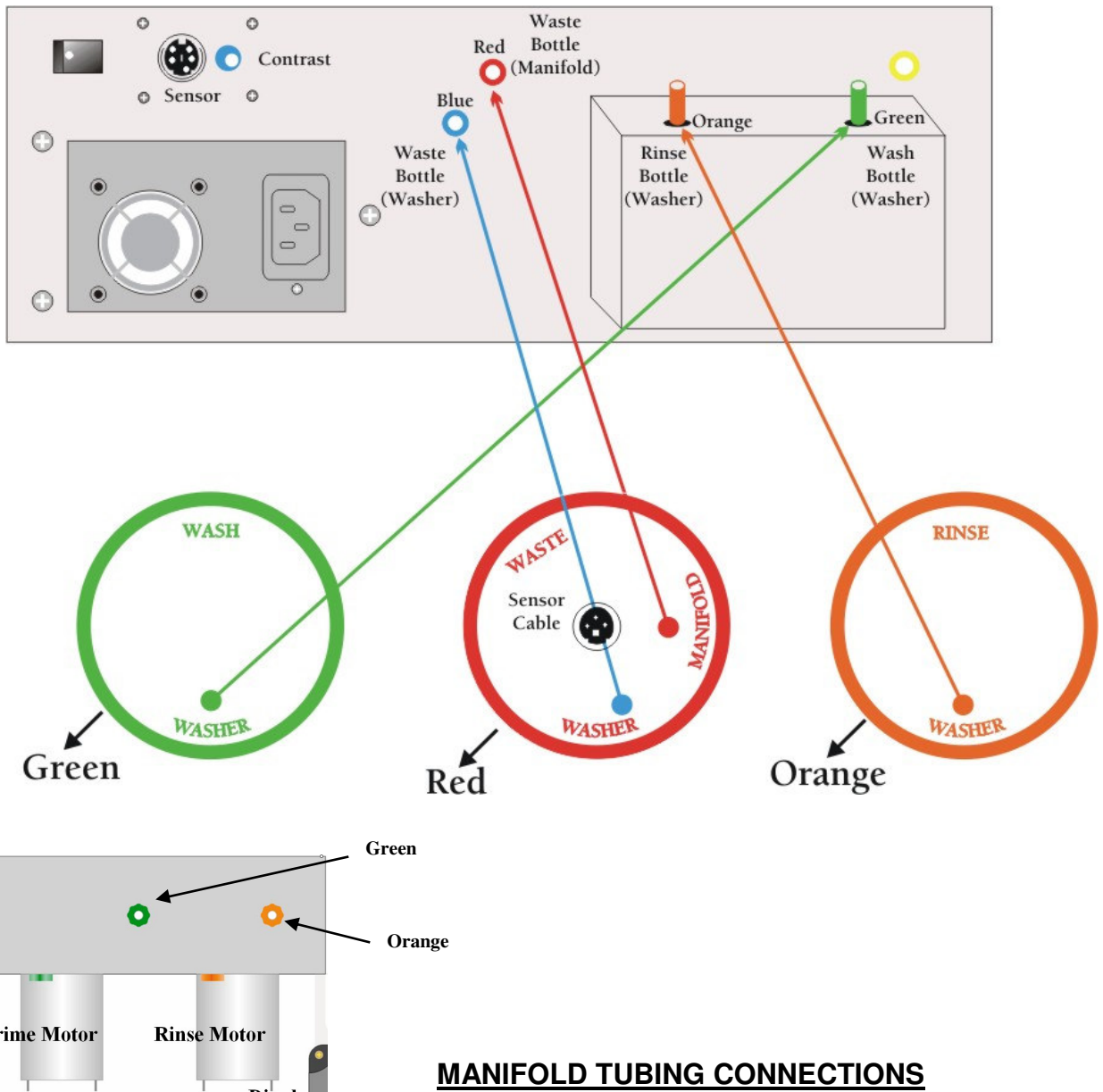
- Ensure that the main power switch is in **OFF** position before connecting.
- Plug the instrument to the **A C** mains. Confirm proper grounding for trouble free operation.

The **washwell PLATE** is provided with an inbuilt voltage stabilizer to take care of voltage fluctuations.

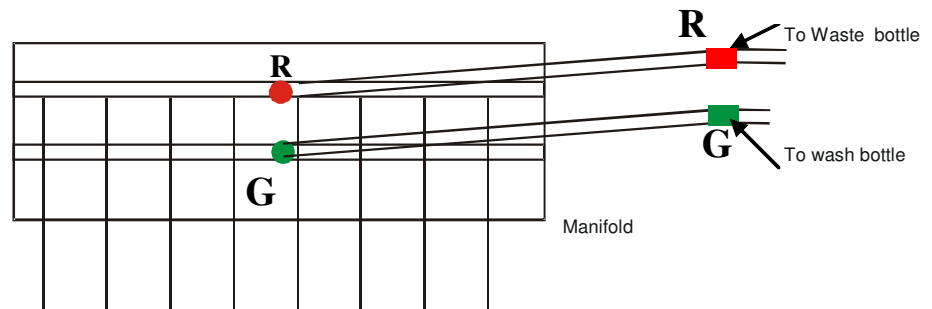


**5.3. Tubing Diagram:**

**REAR PANEL TUBING CONNECTIONS**

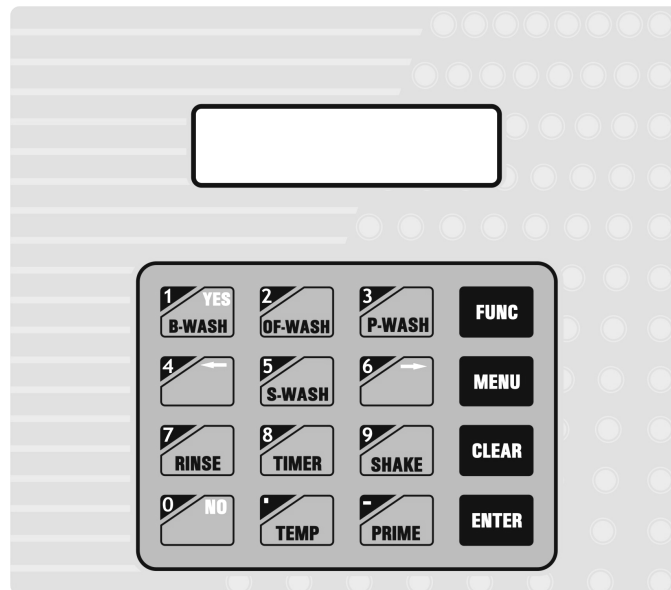


**MANIFOLD TUBING CONNECTIONS**



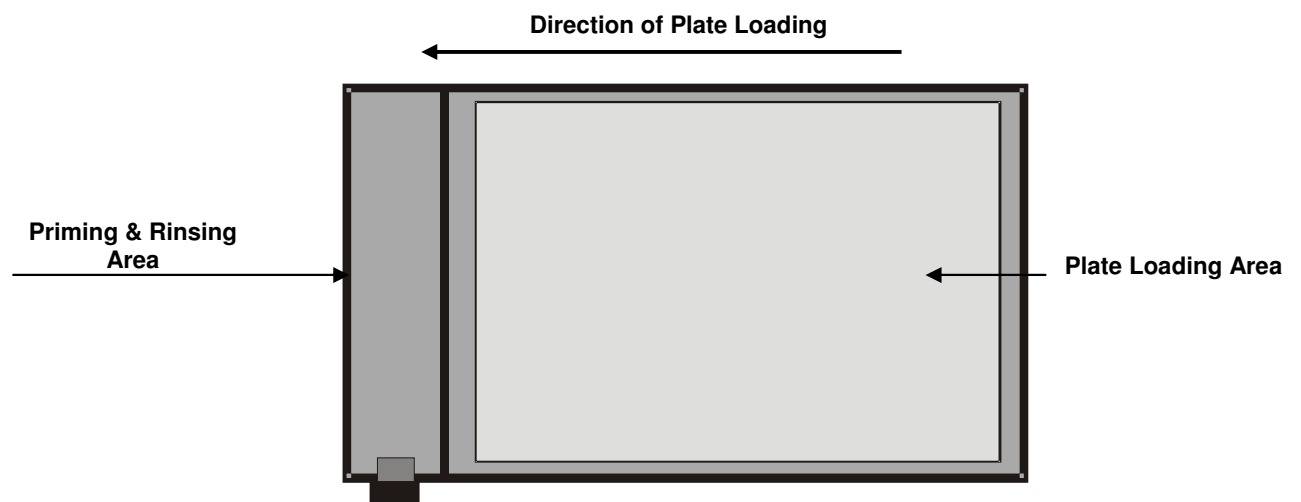
**Note : Load ELISA plate carefully in the slot provided for correct washing**

## 5.4. Keyboard:



## 5.5. Micro-plate Carriage:

Movement of plate is precisely controlled by stepper motor and timing belt to position the plate exactly below the manifold for washing (Ref Fig a)



(Fig a)

## **5.6. Priming and Rinsing Area:**

Carriage plate has built-in priming and rinsing area, priming and rinsing is essential immediately after starting the instrument, and before shutting down the instrument. It helps smooth flow of buffer solution and prevents crystallization. (Ref Fig a)

## **5.7. Manifold:**

Instrument has a specially designed 8-way manifold.

The manifold has a provision to clean the liquid path conveniently hence avoiding common clogging problem because of crystallization, etc.

Manifold is moved vertically up and down by well-controlled stepper motor for proper placement. Manifold needles are laboratory grade steel smooth ends to prevent scratching of the well bottom.

## **6. INSTALLATION AND START-UP INSTRUCTIONS**

- ◆ 6.1. Placing the instrument
- ◆ 6.2. Power Supply
- ◆ 6.3. Protective grounding
- ◆ 6.4. Startup instructions
- ◆ 6.5. Setting time
- ◆ 6.6. Waste Bottle connections
- ◆ 6.7. Rinsing Strip

While installing and setting up the instrument, the safety warnings and general precautions described in section 7 must be observed.

## **6.1. Placing the instrument:**

- The instrument has to be placed on a level bench
- A min. distance of 1m should be maintained from the rear panel to avoid damage to power cord and instrument
- Room temperature has to be between 18°C and 35°C with a relative humidity below 85%.
- Protect it from direct sunshine.

## **6.2. Power supply:**

Once the instrument has been placed, plug it into a power source by the locally available approved plug-in cable. Power cord should be CE, CSA and UL marked.

Voltage -115 - 240 Volts  $\pm$  10%, 50- 60 Hz

## **6.3. Protective Grounding:**

**Warning:** Please make sure that electrical power source is properly grounded.

## **6.4. Start up Instructions**

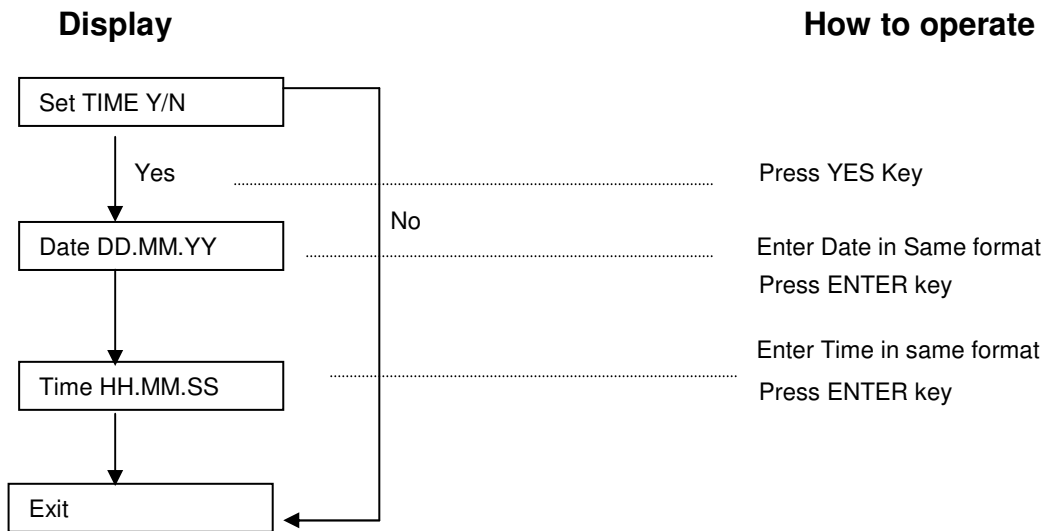
Instrument Starting Procedure

1. Switch on the instrument. The instrument will display **WASH WELL PLATE.**
2. The instrument carries out Self Test to check all the internal parameters.
3. It displays **WP-V5.2** and the time indicating that initialization is complete.
4. If the date and time are not correctly displayed, switch off the instrument and switch it ON once again.

The instrument is now ready for use.

**6.5. Setting date and time:**

Setting of date and time can be done with the help of FUNC key



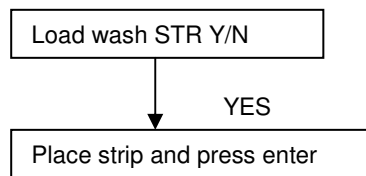
**6.6. Waste Bottle connections:**

Please refer point No. 5.3, Tubing Diagram.

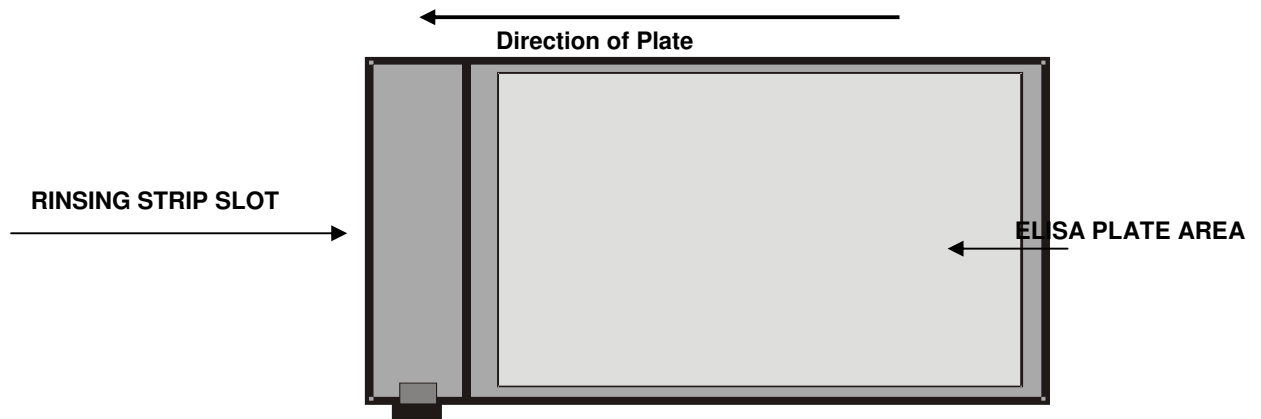
**6.7. Rinsing Strip:**

Load rinsing strip in the rinsing slot of plate holder.

Press FUNC key



Place the rinsing strip on the slot and press enter key.



(Fig a)

## **7. PRECAUTIONS**

## **7.1. Precautions:**

- ◆ Always check for proper grounding during installation. Never operate the instrument with ground wire removed.
- ◆ Do not attempt to open the instrument and make repair without proper technical training. Do not allow unauthorized persons to operate or repair the instrument.

### **Place the ELISA Plate carefully on the tray**

- ◆ Ensure that the main power switch is in OFF position before connecting.
- ◆ Prime the manifold before and after use.
- ◆ Always Prime immediately after switching ON the instrument.
- ◆ Always rinse before switching OFF.
- ◆ Keep wash, waste and rinse bottles clean.
- ◆ Disconnect the tubing before opening wash, waste and rinse bottle caps.
- ◆ **Do not operate any key after switch OFF the instrument, since instrument performs RINSE operation first and then get switched OFF.**



## **8. GENERAL KEY OPERATIONS**

### **◆ 8.1. FUNC Key**

- ◆ 8.1.1. Deleting the test
- ◆ 8.1.2. Setting Date and Time
- ◆ 8.1.3. Storing the Test

### **◆ 8.2. Menu Key**

- ◆ 8.2.1. Recalling the saved test

### **◆ 8.3. PRIME Key**

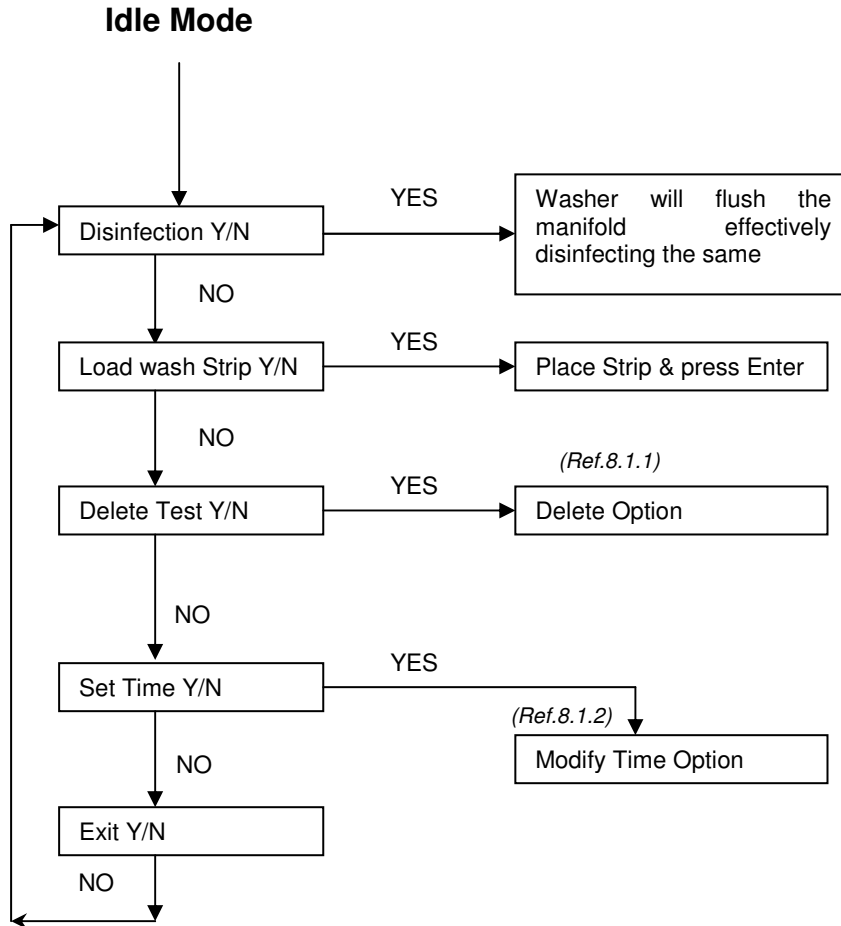
### **◆ 8.4. RINSE Key**

### **◆ 8.5. TIMER Key**

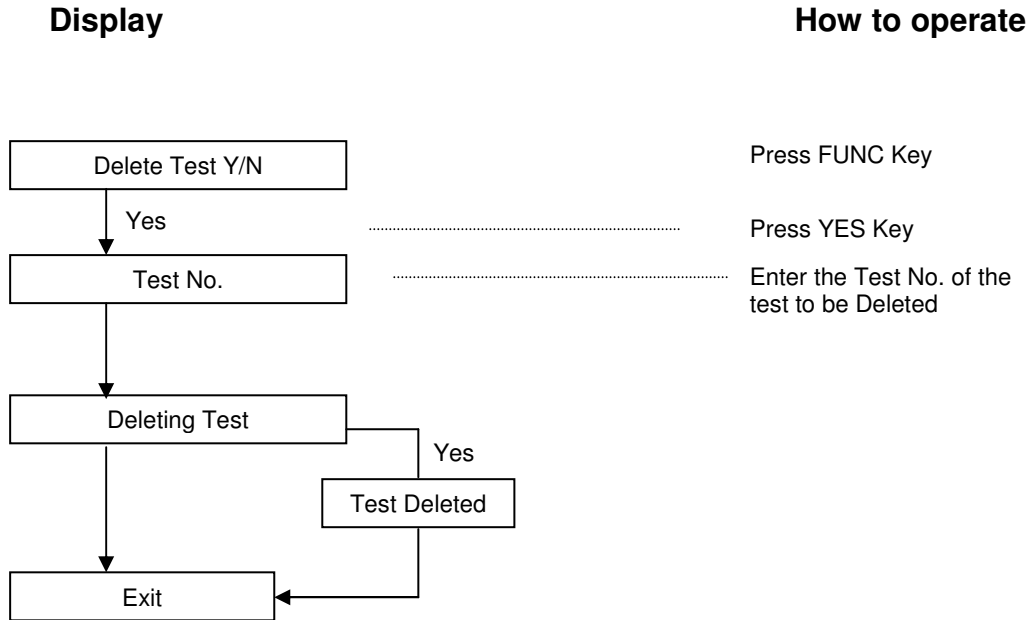
Check whether all the tubing is properly connected. Switch on the instrument.

## 8.1. FUNC KEY

**FUNC**



### 8.1.1. Deleting the Test

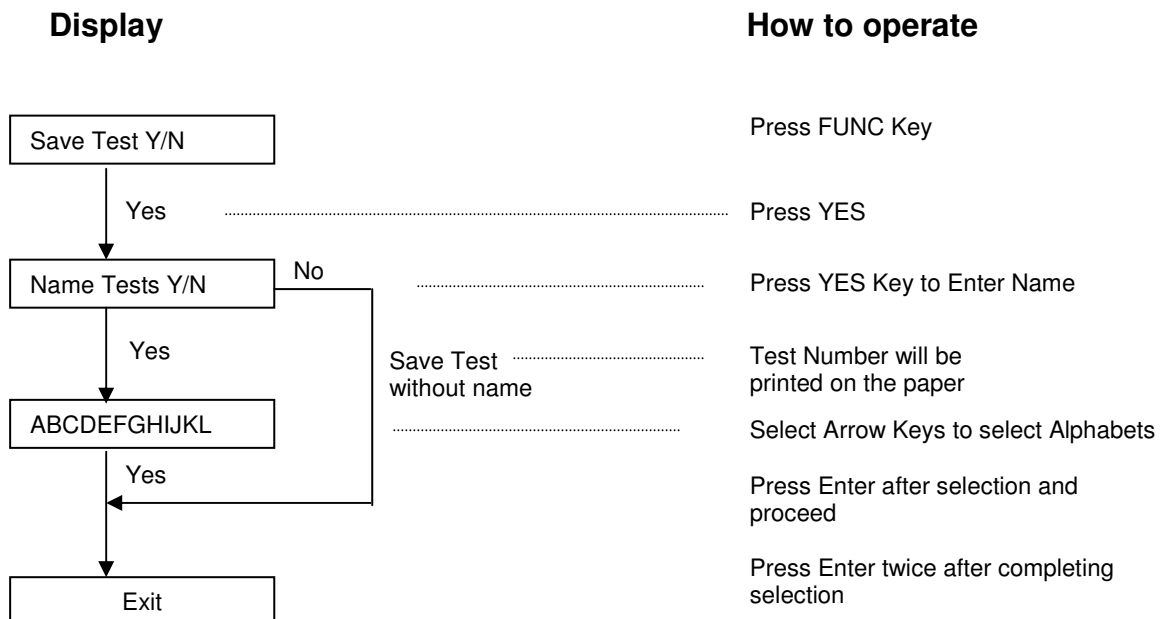


### 8.1.2. Setting Date and Time

(Refer point No. 6.5)

### 8.1.3. Storing the Test:

To save the programmed test under any programming Mode



**8.2. MENU KEY:** 

This key is used to recall the test number to be performed.

**8.2.1. Recalling the saved test:**



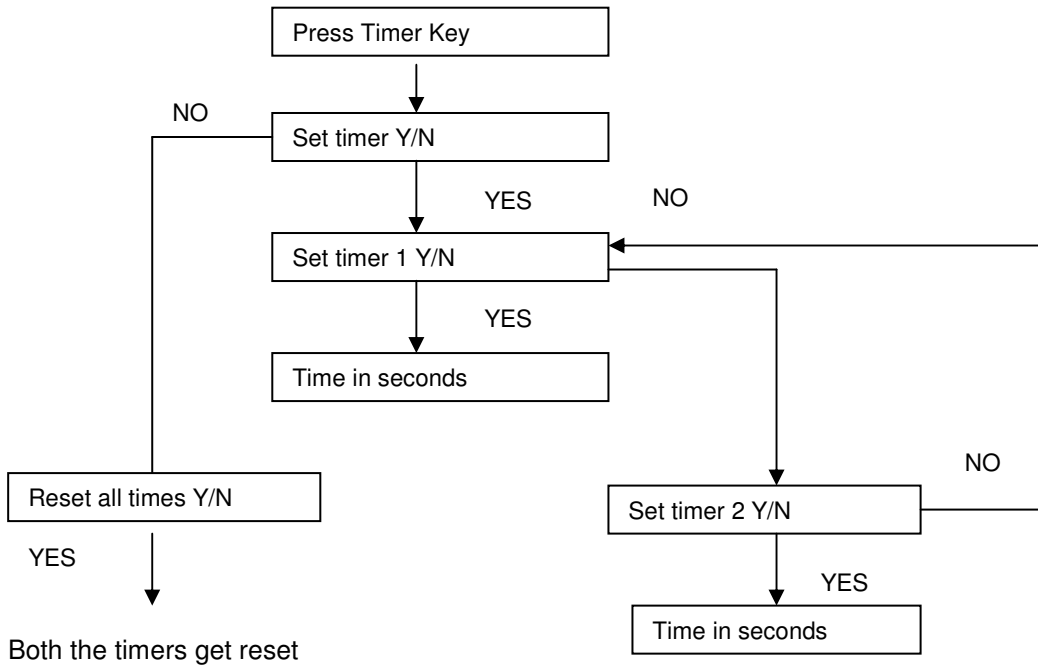
**8.3. PRIME KEY:** 

Pressing the 'Prime Key', Peristaltic Pump (Prime Motor) operates continuously for few seconds. Wash buffer from wash bottle primes the tubing and manifold needles.

**8.4. RINSE KEY:** 

Pressing 'Rinse Key' peristaltic Pump (Rinse Motor) operates continuously for few seconds. Distilled water from rinse bottle, rinses the tubing and manifold needles.

**8.5. TIMER KEY:** 



## **9. PROGRAMMING**

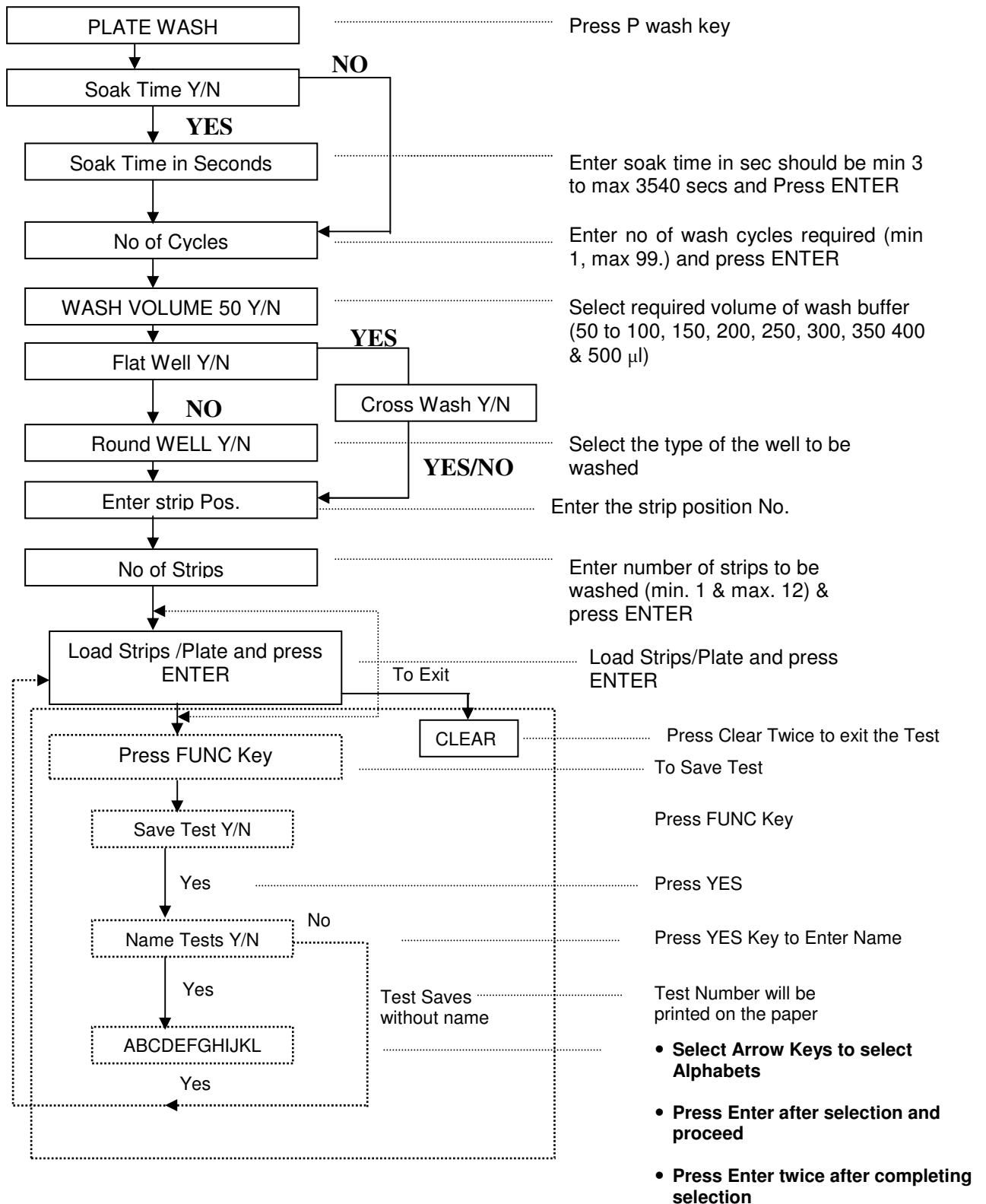
- ◆ 9.1. Plate Wash
- ◆ 9.2. Strip Wash
- ◆ 9.3. Incubation
- ◆ 9.4. Bottom Wash
- ◆ 9.5. Overflow Wash / Top Wash
- ◆ 9.6. Priming
- ◆ 9.7. Rinsing
- ◆ 9.8. Shaking
- ◆ 9.9. Disinfection

## 9.1. Plate Wash:



### Display

### How to operate

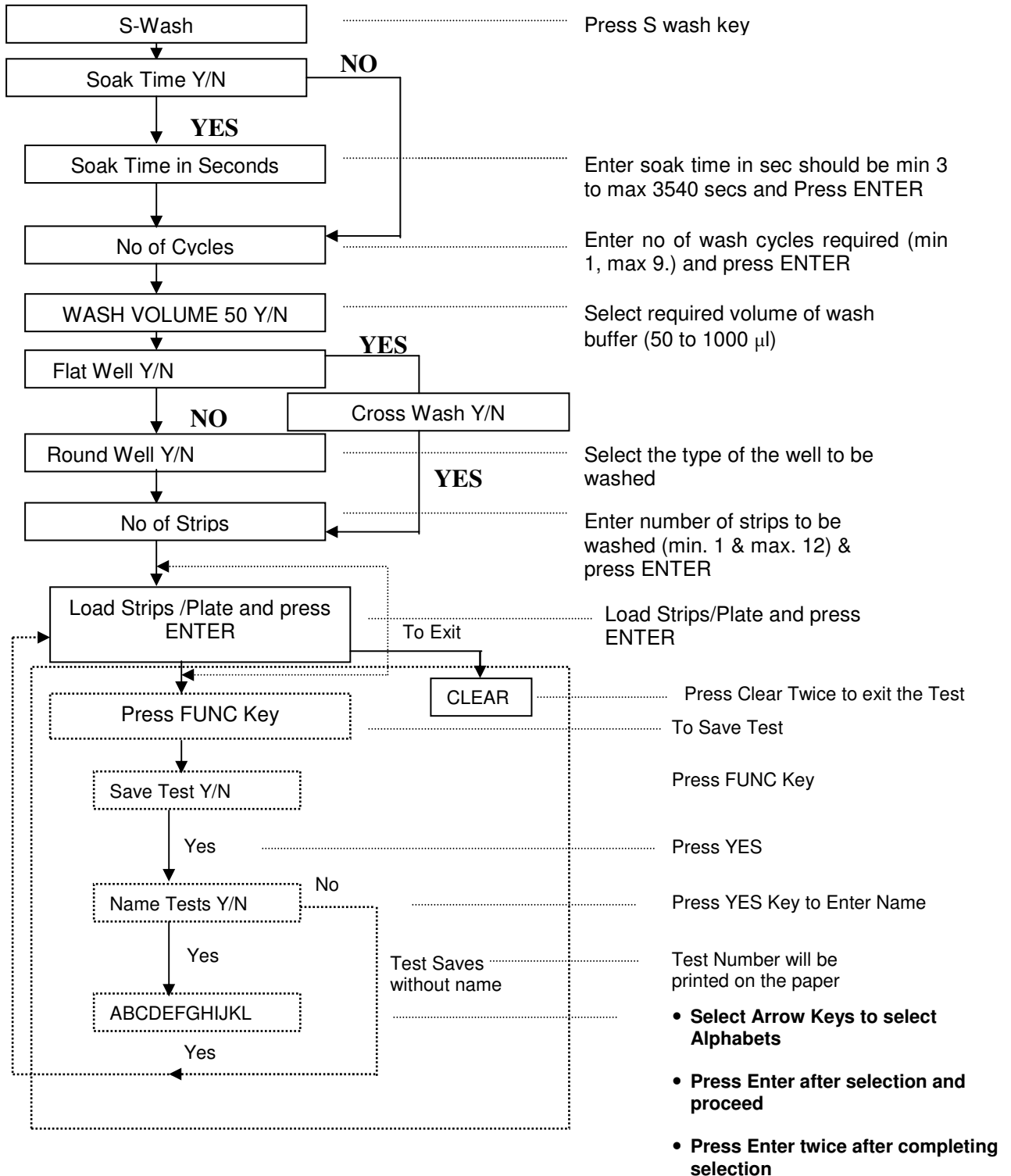


Instrument aspirates the waste solution from the well. Dispenses the programmed volume in to the micro-strip well. Aspiration is continuously kept 'ON' to prevent the over flow. After completing dispensing cycle, depending on soak time it starts aspirating the solution. After this the instrument transports the micro-plate back to home position.

## 9.2. Strip Wash:

### Display

### How to operate



Instrument aspirates the waste solution from the well. Dispenses the programmed volume in to the micro-strip well. Aspiration is continuously kept on to prevent the over flow. After completing dispensing cycle, depending on soak time it starts aspirating the solution. After this the instrument transports the micro-plate back to home position.

**9.3. Incubation:**

**washwell PLATE** consist of a two plate incubator which can be programmed individually. After the set time elapses, the instrument gives an audible alarm as well as notification on display indicating the elapse of time. Both the timers can be programmed separately.

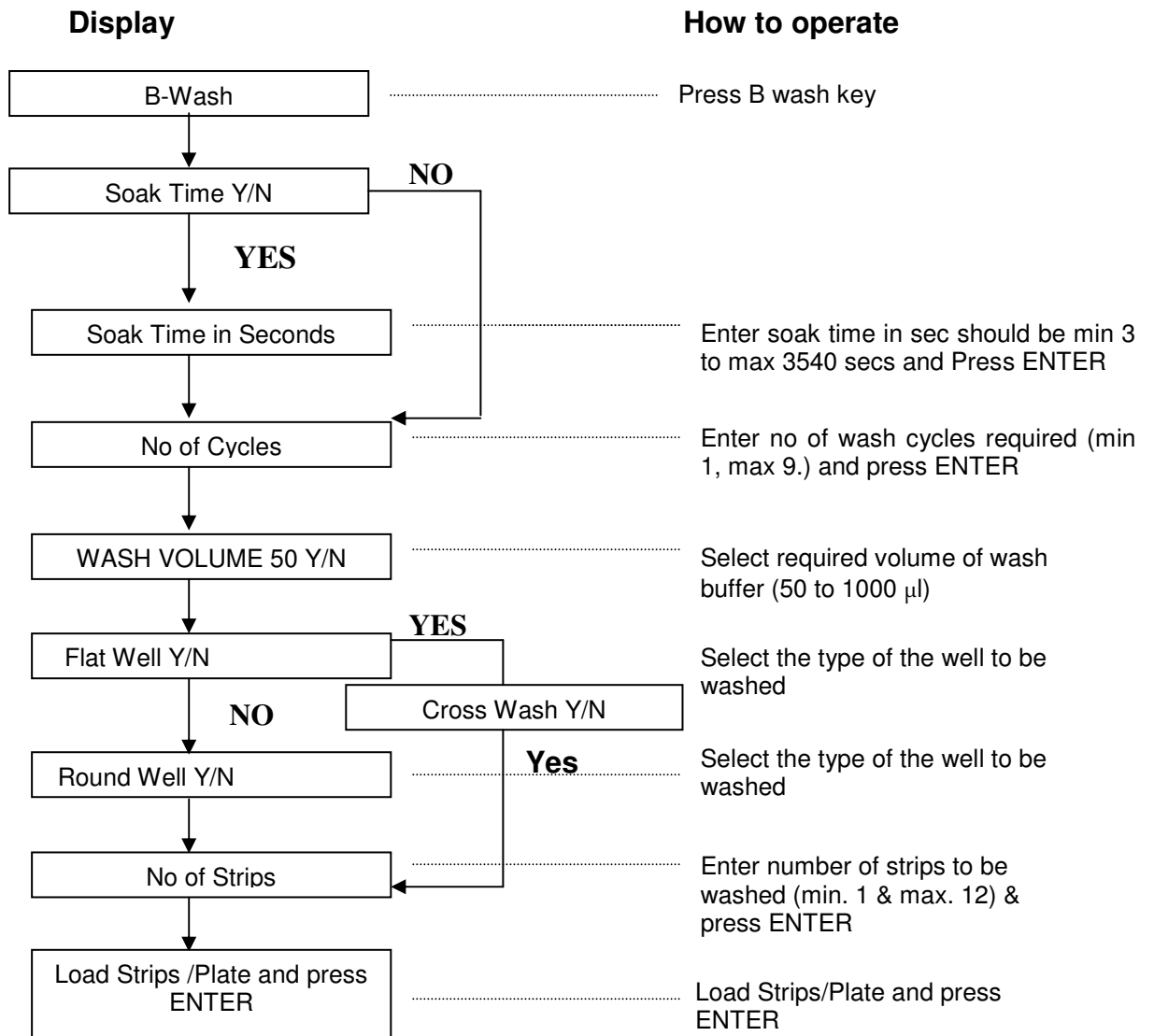
Incubator is activated when the instrument is in power on condition. It takes 10-15 minutes to attain 37° C Temperature (This temperature is factory set).

Procedure to program incubator time is as follows:

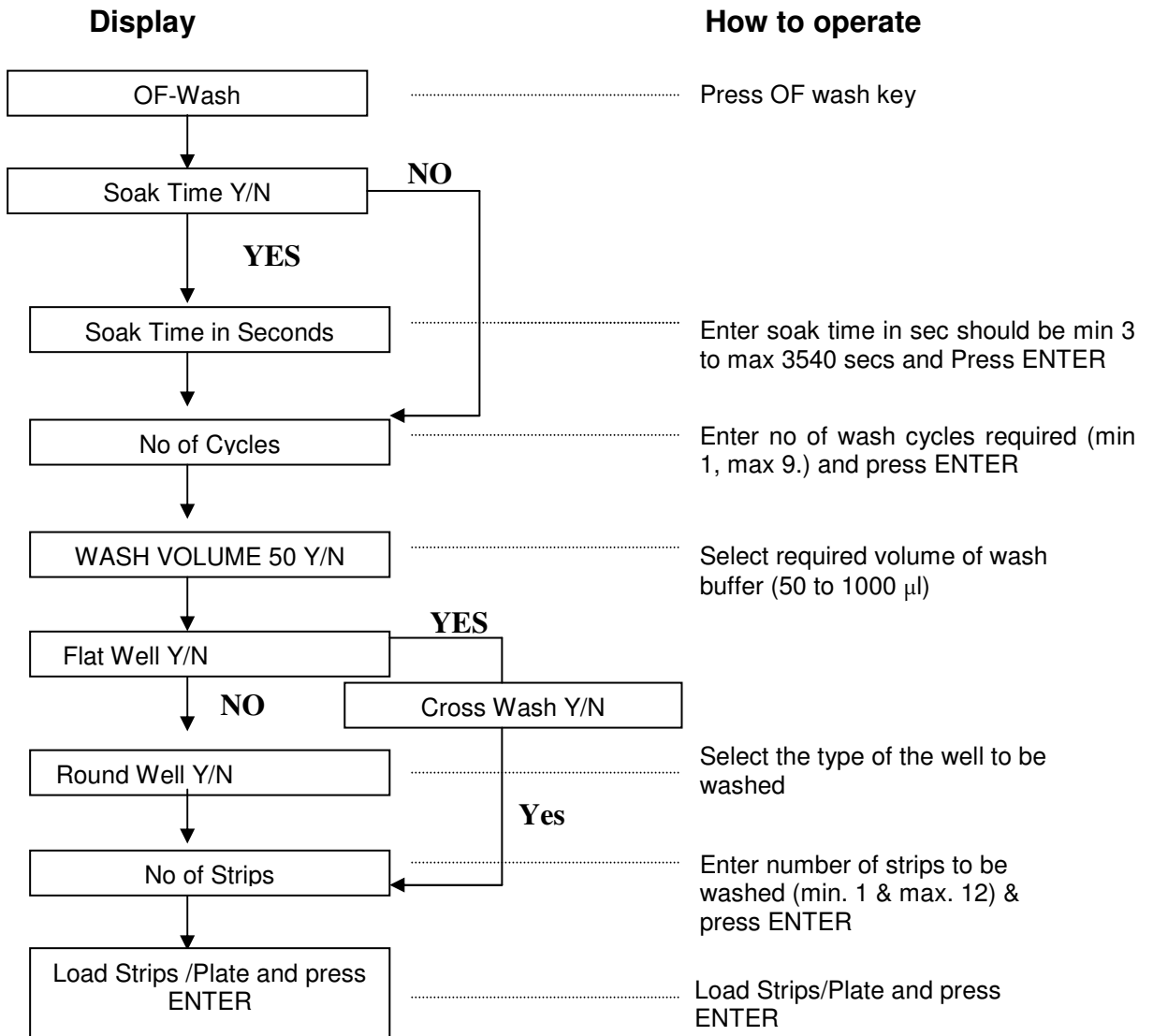
(Please refer point No. 8.5)



## 9.4. Bottom Wash:



## 9.5. Overflow Wash / Top Wash



## 9.6. Priming:



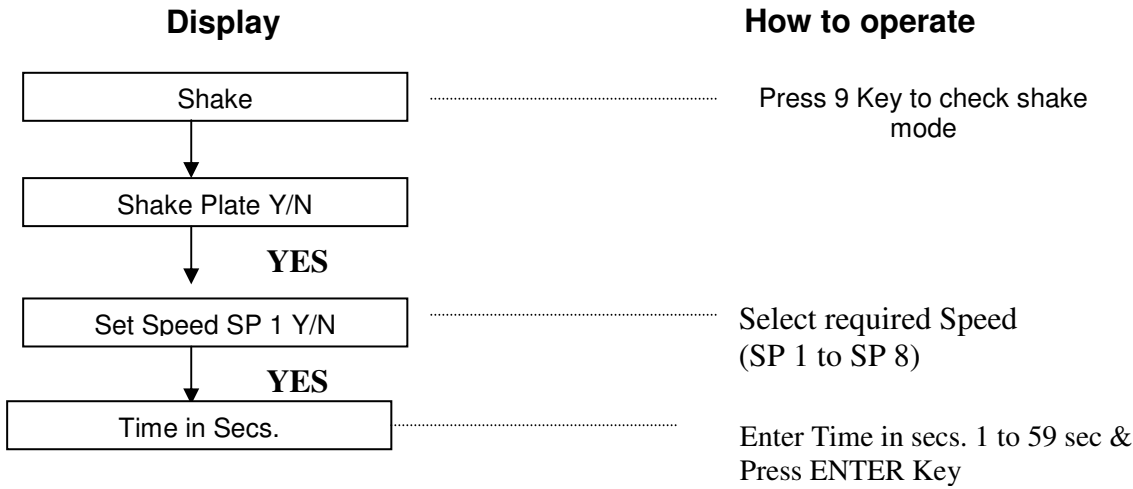
(Please refer point No. 8.3)

## 9.7. Rinsing :

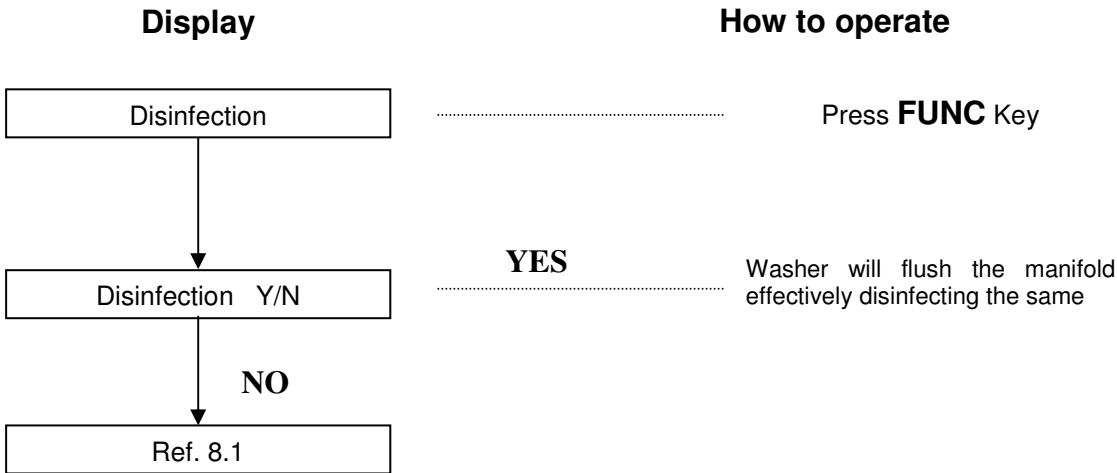


(Please refer point No. 8.4)

**9.8. Shaking:** 



**9.9. Disinfection** 



## **10. TROUBLESHOOTING**

**10.1. Troubleshooting:**

<b>PROBLEM</b>	<b>SOLUTION</b>
The Manifold does not dispense	<ul style="list-style-type: none"><li>• Clean the path of the steel tubes using needle cleaner provided.</li><li>• Check Wash bottle tubing connections.</li><li>• Check valve direction.</li></ul>
The Manifold does not aspirate	<ul style="list-style-type: none"><li>• Clean the path of the steel tubes using needle cleaner provided.</li><li>• Check the Waste bottle cap and tighten them properly.</li><li>• Check waste bottle tubing connections.</li></ul>
The Instrument beeps continuously	<ul style="list-style-type: none"><li>• Check the Sensor cable connection.</li><li>• Check whether waste bottle is full.</li><li>• Check the waste bottle cap and clean the cap.</li></ul>
Movement Jam	Reset the instrument by pressing the CLEAR key twice or Switch OFF and Switch ON the instrument. Insert the Plate properly and return.
Memory Full	If Number of saved tests exceeds 50 tests then delete the unwanted test and save the test.

## **11. DECONTAMINATION**

- ◆ 11. Decontamination
- ◆ 11.1. Purpose of Decontamination
- ◆ 11.2. General Considerations
- ◆ 11.3. Decontamination procedure

**11. Decontamination:**

If the instrument is to be shipped after being exposed to potentially hazardous material, it should be decontaminated. The following procedure outlines the method to decontaminate the instrument before packaging and shipment.

**11.1. Purpose of Decontamination:**

Decontamination minimizes the risk to all who come in contact with the instrument during shipping, handling, and servicing.

**11.2. General Considerations:**

- Any laboratory instrument that has been used for clinical analysis is considered a bio-hazard and should be decontaminated prior to handling. Intact skin is generally considered an effective barrier against infectious organisms; however, small abrasions and cuts may not be always visible. Prophylactic gloves must be worn when handling instruments that have not been decontaminated. Gloved hands should be considered contaminated and must be kept away from eyes mouth and nose at all times.
- Mucous membranes are considered as the prime entry routes for infectious agents. Wear eye protection and a surgical mask when there is a possibility of aerosols.
- Eating and/or drinking while decontaminating instruments is not advisable.

**11.3. Decontamination procedure:**

- A solution of 0.5% Sodium Hypo Chlorite (NaOCL) solution (Bleach) is used. Commercial bleach is 5% NaOCL; household bleach is 3% NaOCL. When using commercial bleach, use a 10:1 mixture; if using household bleach, a 6:1 mixture is required. This is a caustic solution. It is important to wear gloves and eye protection when handling it.
- Wipe down the carrier and all exposed surfaces of the unit with the bleach solution. Remove the top shroud of the instrument and wipe down the top surface of the instrument base, as well as the inside of the top shroud.
- Reassemble the unit and discard the used gloves and towels.

## 12. SAFETY CLEARANCE CERTIFICATE:

Please complete all information requests on this form prior to returning the instrument to the manufacturer or your local distributor for servicing, repairs or return. Thank you for your co-operation.

Customer \_\_\_\_\_ Contact \_\_\_\_\_  
Address \_\_\_\_\_ Position \_\_\_\_\_  
\_\_\_\_\_ Dept \_\_\_\_\_  
\_\_\_\_\_ Tel: \_\_\_\_\_  
Country \_\_\_\_\_ Fax: \_\_\_\_\_  
Post Code \_\_\_\_\_

Model No. \_\_\_\_\_ Serial No. \_\_\_\_\_

Accessories \_\_\_\_\_  
Returned \_\_\_\_\_  
\_\_\_\_\_

Date of Purchase (if known) \_\_\_\_\_

Complaint \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Has the equipment been exposed to any of the following: (\*delete as applicable)  
a) Blood, body fluids, pathological specimens \*YES/NO  
If YES, please specify \_\_\_\_\_  
\_\_\_\_\_

b) Other Biohazard \*YES/NO  
if YES, Please specify \_\_\_\_\_  
\_\_\_\_\_