

A.D. WASH



User Manual

Version 5.31 / 1

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The A.D. Wash manual was written and produced with the utmost care. However, errors cannot be fully excluded. **apDia** does not take any responsibility and accepts no liabilities of any kind that may occur because of errors in the manual.



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INSTALLATION CUM WARRANTY CERTIFICATE (Original)

(2 copies: original for **apDia** and duplicate for customer)

ONE-YEAR WARRANTY FROM THE DATE OF INSTALLATION

Customer's name : _____

Customer's complete address : _____
(includes postal address, tel. n° _____
and e-mail address) _____

Instrument serial n° : _____

Date of installation : _____

Invoice n° : _____

Invoice date : _____

Date of commencing under Annual Maintenance Contract : _____

We hereby agree that the instrument is working satisfactorily.

Date:

Customers' signature with seal:

Note: This warranty, however, would not apply to instruments damaged by misuse or due to circumstances beyond the control of **apDia** or due to the failure to follow the operating instructions given in the manual.

INSTALLATION CUM WARRANTY CERTIFICATE (Duplicate)

(2 copies: original for **apDia** and duplicate for customer)

ONE-YEAR WARRANTY FROM THE DATE OF INSTALLATION

Customer's name : _____

Customer's complete address : _____
(includes postal address, tel. n° _____
and e-mail address) _____

Instrument serial n° : _____

Date of installation : _____

Invoice n° : _____

Invoice date : _____

Date of commencing under
Annual Maintenance Contract : _____

We hereby agree that the instrument is working satisfactorily.

Date:

Customers' signature with seal:

Note: This warranty, however, would not apply to instruments damaged by misuse or due to circumstances beyond the control of **apDia** or due to the failure to follow the operating instructions given in the manual.

1. GENERAL INFORMATION

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.

apDia 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 incidental expenses like travel and man-hour service charges will be charged extra.

1.2. TECHNICAL SERVICE

apDia 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 printed serial n° on the identification label.

Only qualified technicians are entitled to repair the instrument.

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

1.3. DISPOSAL INSTRUCTIONS

In case of removal or disposal of the instrument, the instructions below 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. CONTACT



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2. GENERAL SAFETY WARNINGS

2.1. DANGER – WARNING SYMBOLS

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



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



This symbol represents HIGH ELECTRIC VOLTAGE. It indicates that it is dangerous to touch any part having this label. Only qualified operators can access these components, after unplugging the instrument from the electrical power 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 (human serum or urine). In this condition, infection or contamination might occur to the user. 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 paragraph, 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"

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 conditions are 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 this 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.
- Maintain room temperature and humidity as specified in the manual.
- The instrument has to be used as described in this manual. Usage in any other way will be regarded as improper.
- 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 **apDia** 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.

- It is advised to evaluate the electromagnetic environment 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

The A.D. Wash 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

- User programmable soak time, wash cycles and dispensing volume
- Continuous aspiration to prevent overflow
- Loosely held manifold to prevent scratching of well bottoms
- Use of special software to aspirate "U" shaped, "V" shaped, and wide wells
- Waste bottle full indicator with audible alarm
- Built-in two plate ELISA incubator
- Built-in stabilizer
- Real time clock
- State of art equipment with versatile software
- Battery backed up memory for 50 tests
- **On switching 'OFF' the instrument, it performs a RINSE operation first after which the instrument automatically shuts down**

3.3. SPECIFICATIONS

Manifold	8-way manifold, autoclavable
Dispensing Method Volume	Specially designed peristaltic pump 50 – 100 – 150 – 200 – 250 – 300 – 350 – 400 – 500 µl
Aspirating Method Residual Volume	Continuous while dispensing through a diaphragm pump, hence preventing overflow < 5 µl
Waste Bottle	One (capacity 2 liters) with audible alarm when bottle is completely filled 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 / Top Wash Rinsing Priming Disinfection
Shaking Time Speed	1 to 59 seconds 8 steps
Incubator	For two ELISA plates, 37°C
Timer	Individually programmable 2 nos.
Power Wattage Voltage	50 Watt 115 – 230 Volt ± 10 %, 50 – 60 Hz
Operating Position	On horizontal, rigid, flat and vibration-free surface
Operating Conditions Temperature Humidity	+18°C to +35°C Up to 85 %
Storage Conditions Temperature Humidity	-10°C to +60°C Up to 85 %
Enclosure	ABS Fire retardant
Size (cm)	35 x 35 x 13 (l x b x h)
Weight	Ca. 6 kg

4. PACKING, TRANSPORT AND STORAGE

4.1. GENERAL WARNINGS

The instrument has to be decontaminated before packing for transportation.

4.2. PACKING

Packaging is needed whenever the instrument is 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 n° 11 (Decontamination) of this manual.
- Place the instrument into the original packaging box. The instrument has to be properly protected by plastic protective material. Add a copy of the completed safety clearance certificate (copy of Safety Clearance Certificate is attached at the end of this manual, chapter n° 12).
- Mark the package with address, instrument identification and warning labels.

4.3. INSTRUMENT TRANSPORTATION

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

4.4. STORAGE OF THE INSTRUMENT

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

Relative humidity has to be less than 85 % and temperature between -10°C and +60°C.

5. INSTRUMENT DESCRIPTION

Different views of the instrument are shown in the pictures below.

5.1. PERSPECTIVE VIEW

(A) Front view:

- Display
- Keyboard
- Wash Bottle
- Waste Bottle
- Rinse Bottle



(B) Rear panel view

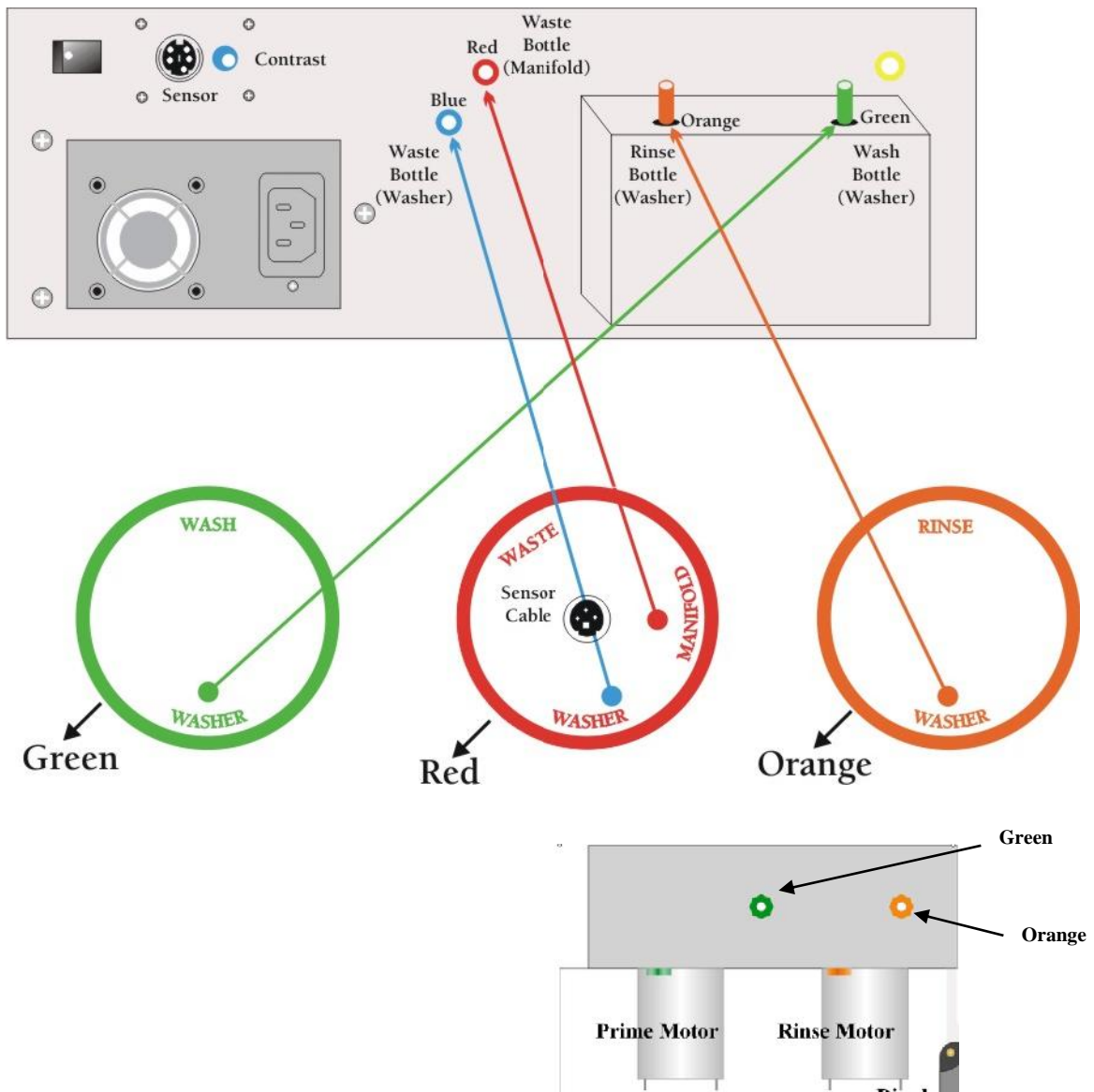
Please refer to the diagram shown in paragraph 5.2.

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

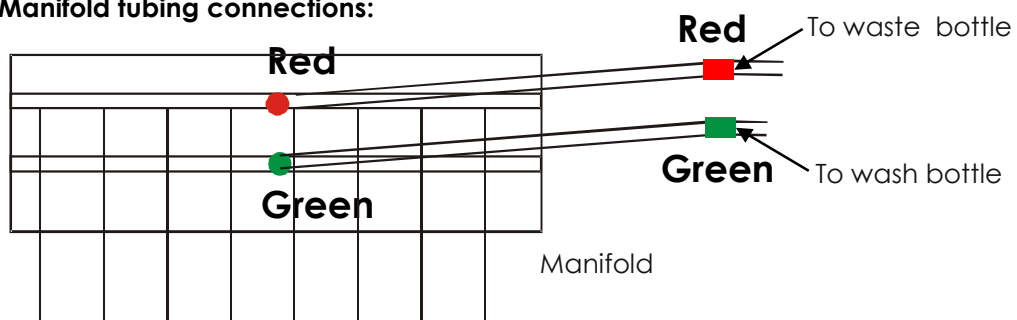
The A.D. Wash is provided with an built-in voltage stabilizer to take care of voltage fluctuations.

5.2. TUBING DIAGRAM

Rear panel tubing connections:



Manifold tubing connections:

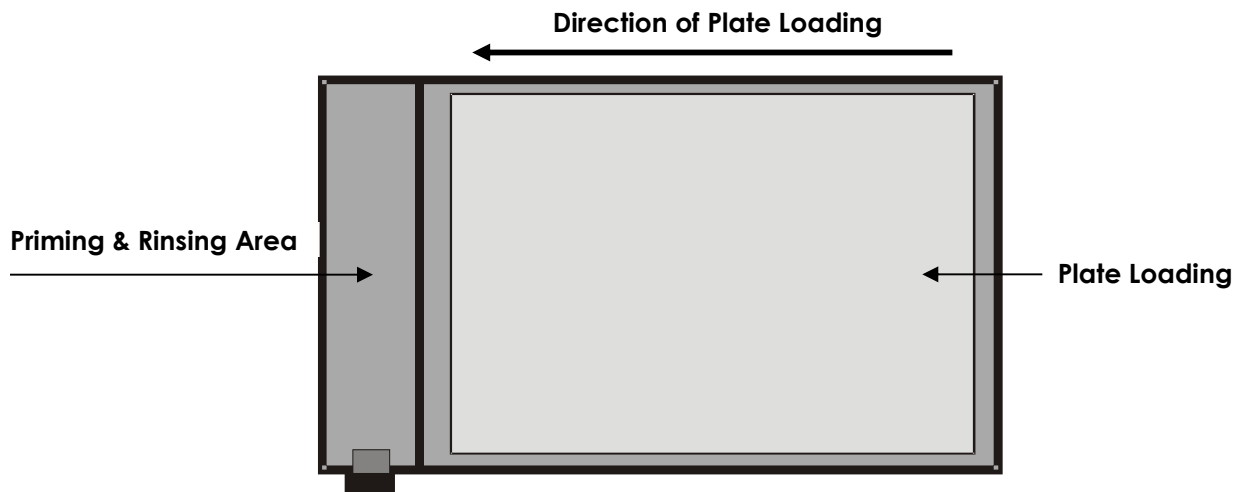


5.3. KEYBOARD



5.4. MICRO-PLATE CARRIAGE

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



5.5. PRIMING AND RINSING AREA

The plate carriage has a built-in priming and rinsing area. Priming and rinsing is essential immediately after starting up the instrument, and before shutting down the instrument. It helps a smooth flow of buffer solution and prevents crystallization.

5.6. MANIFOLD

The 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.

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

6. INSTALLATION AND START-UP INSTRUCTIONS

While installing and setting up the instrument, the safety warnings and general precautions described in chapter n° 7 must be taken into account.

6.1. PLACING THE INSTRUMENT

- The instrument has to be placed on a leveled bench.
- A minimum distance of 1 meter 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 %.
- The washer has to be protected from direct sunlight.

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.

115 – 230 Volt \pm 10 %, 50 – 60 Hz

6.3. PROTECTIVE GROUNDING



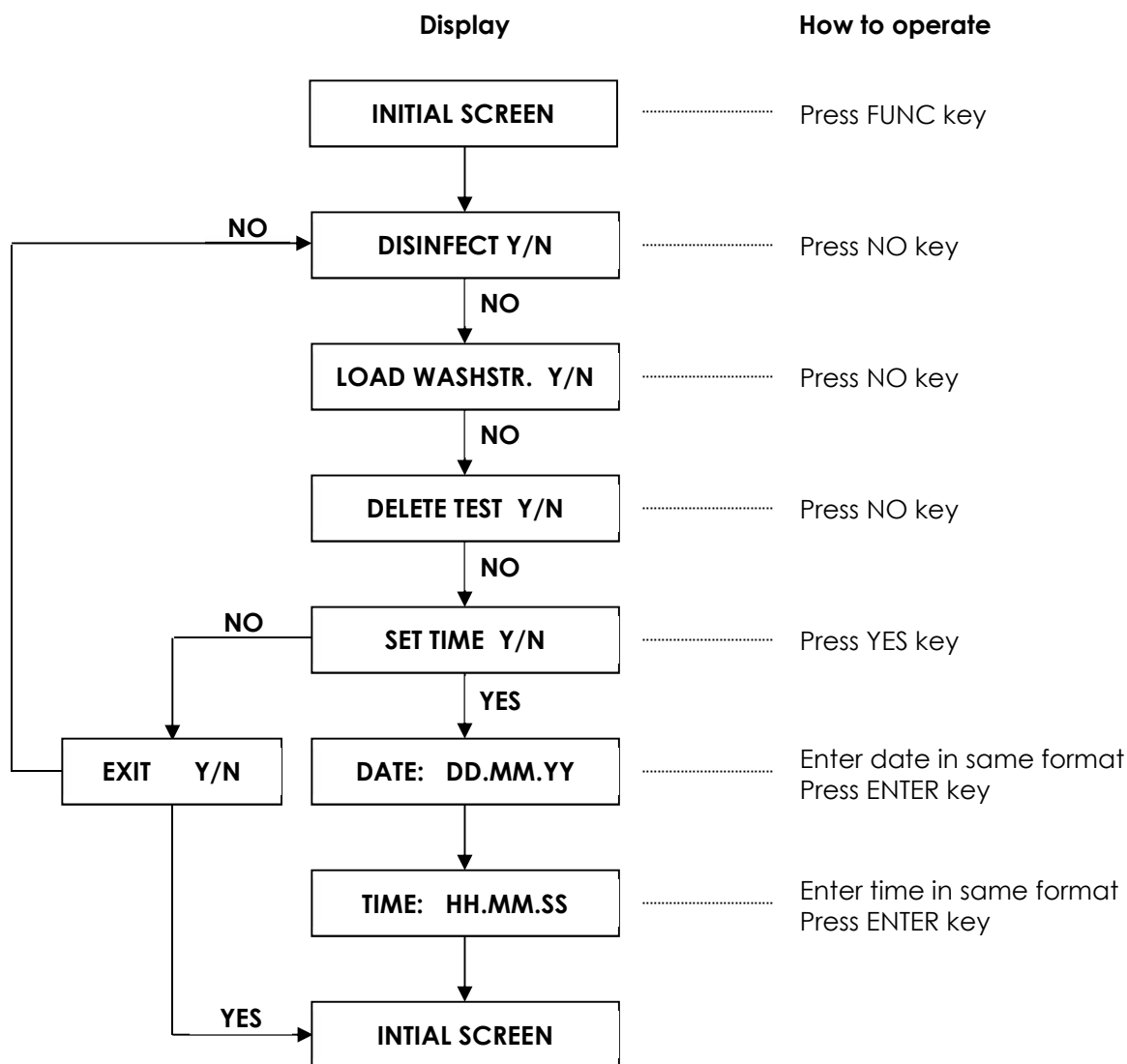
Warning: Please make sure that the electrical power source is properly grounded.

6.4. START UP INSTRUCTIONS

- Switch on the instrument. The instrument will display **AD WASH + current software version**.
- The instrument carries out a self-test to check all the internal parameters.
- It displays **AD WASH** and the time indicating that initialization is complete.
- 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:

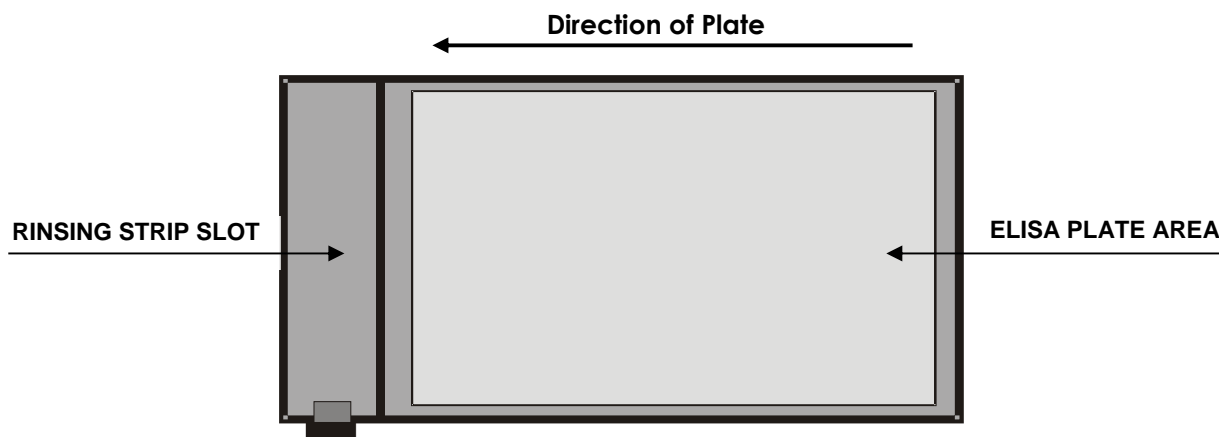
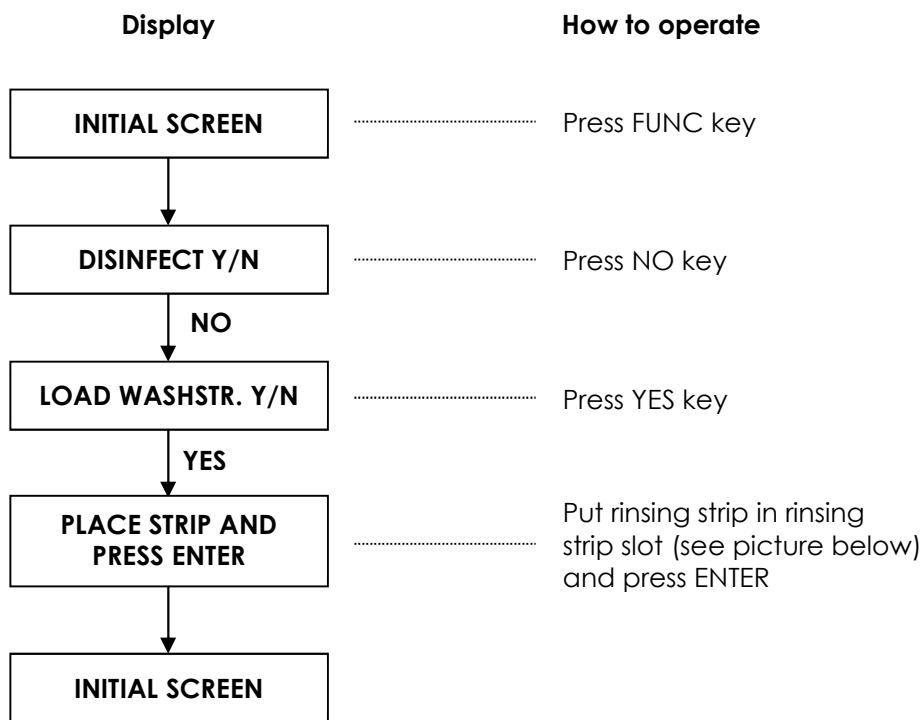


6.6. WASTE BOTTLE CONNECTIONS

Please refer to paragraph 5.2 (Tubing diagram).

6.7. LOADING RINSING STRIP

To load the rinsing strip in the rinsing slot of the plate holder, do the following:



7. PRECAUTIONS

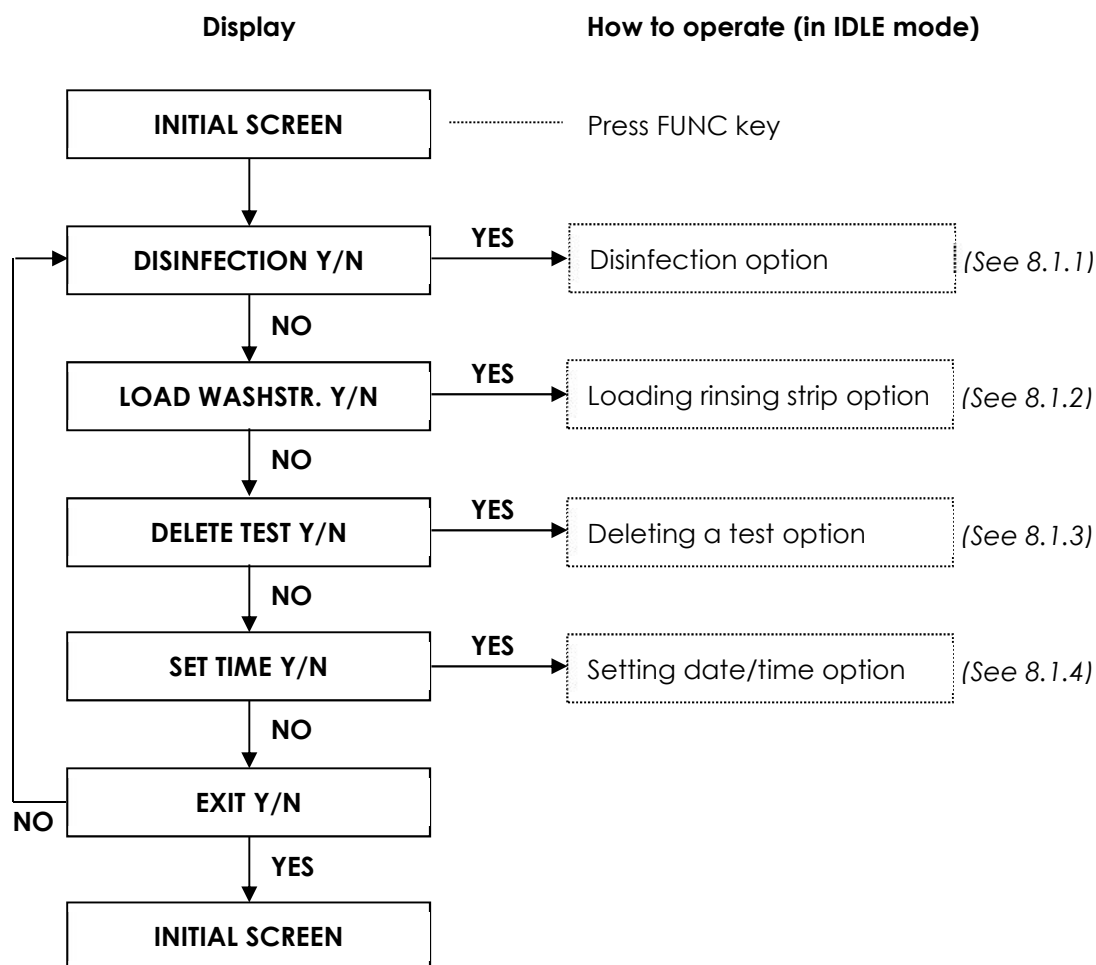


- Always check for proper grounding during installation. Never operate the instrument with ground wire removed.
- Ensure that the main power switch is in OFF position before connecting.
- Do not attempt to open the instrument and make repair without proper technical training. Do not allow unauthorized persons to operate or repair the instrument.
- **Load the ELISA plate carefully in the slot provided for correct washing.**
- Prime the manifold before and after use.
- Always prime immediately after switching ON the instrument.
- Always rinse before switching OFF the instrument.
- Keep wash, waste and rinse bottles clean.
- Disconnect the tubing before opening the wash, waste and rinse bottle caps.
- **Do not operate any key after switching OFF the instrument, since the instrument performs a RINSE operation first after which it gets switched OFF automatically.**

8. GENERAL KEY OPERATIONS

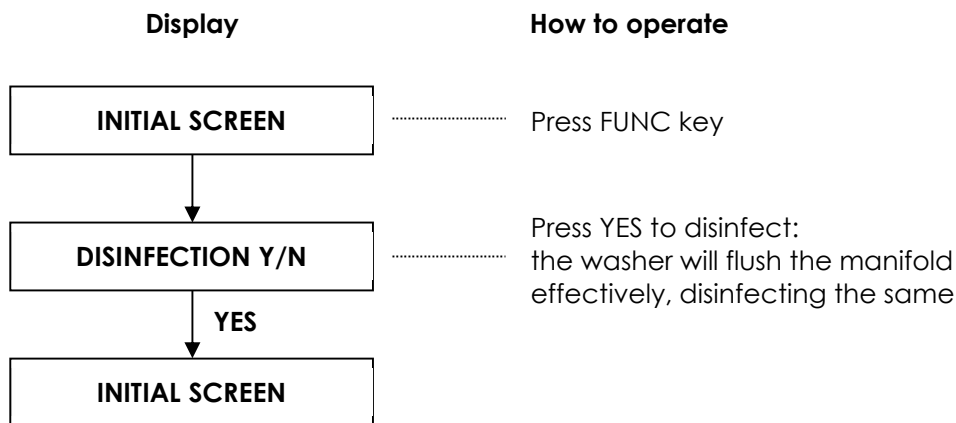
Check whether all the tubing is properly connected. Switch on the instrument.

8.1. FUNC KEY



The FUNC key is also used to save a test in any **PROGRAMMING mode** (See 8.1.5).

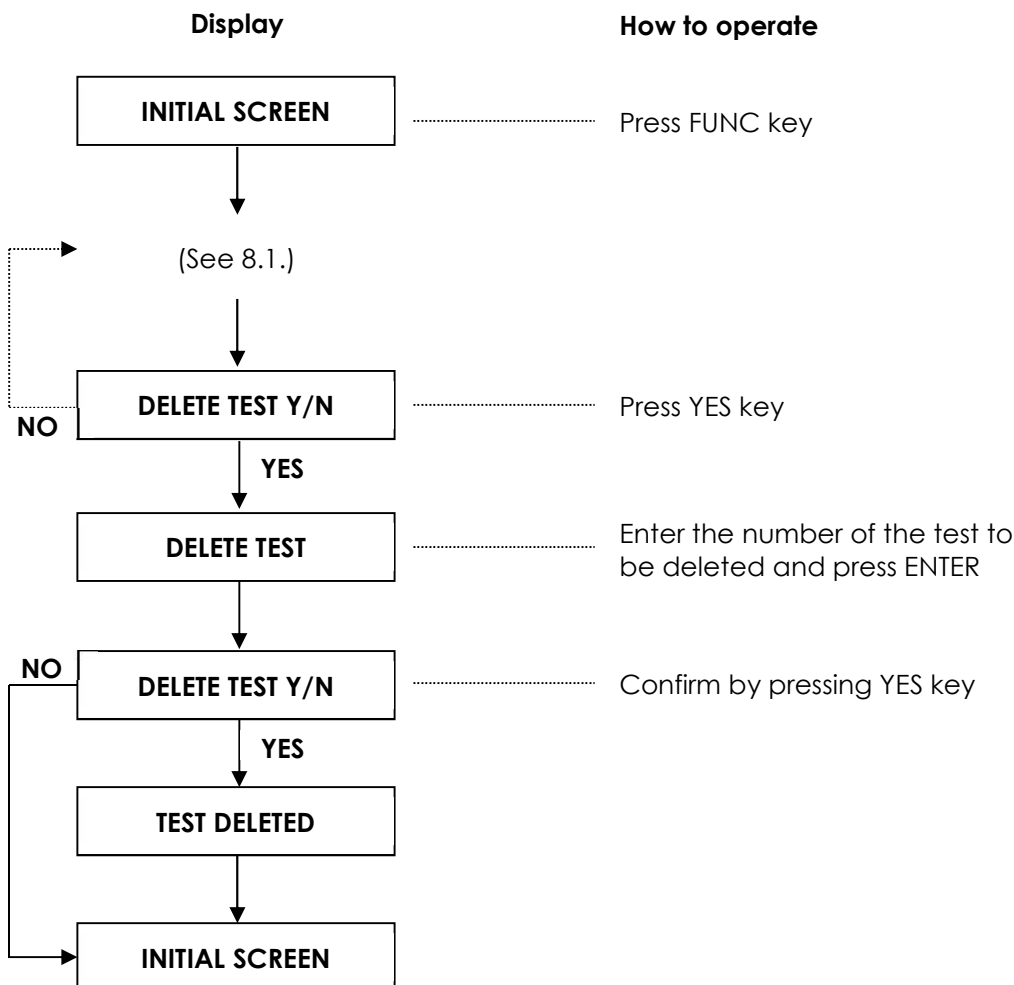
8.1.1. Disinfection



8.1.2. Loading rinsing strip

Refer to paragraph 6.7.

8.1.3. Deleting a test

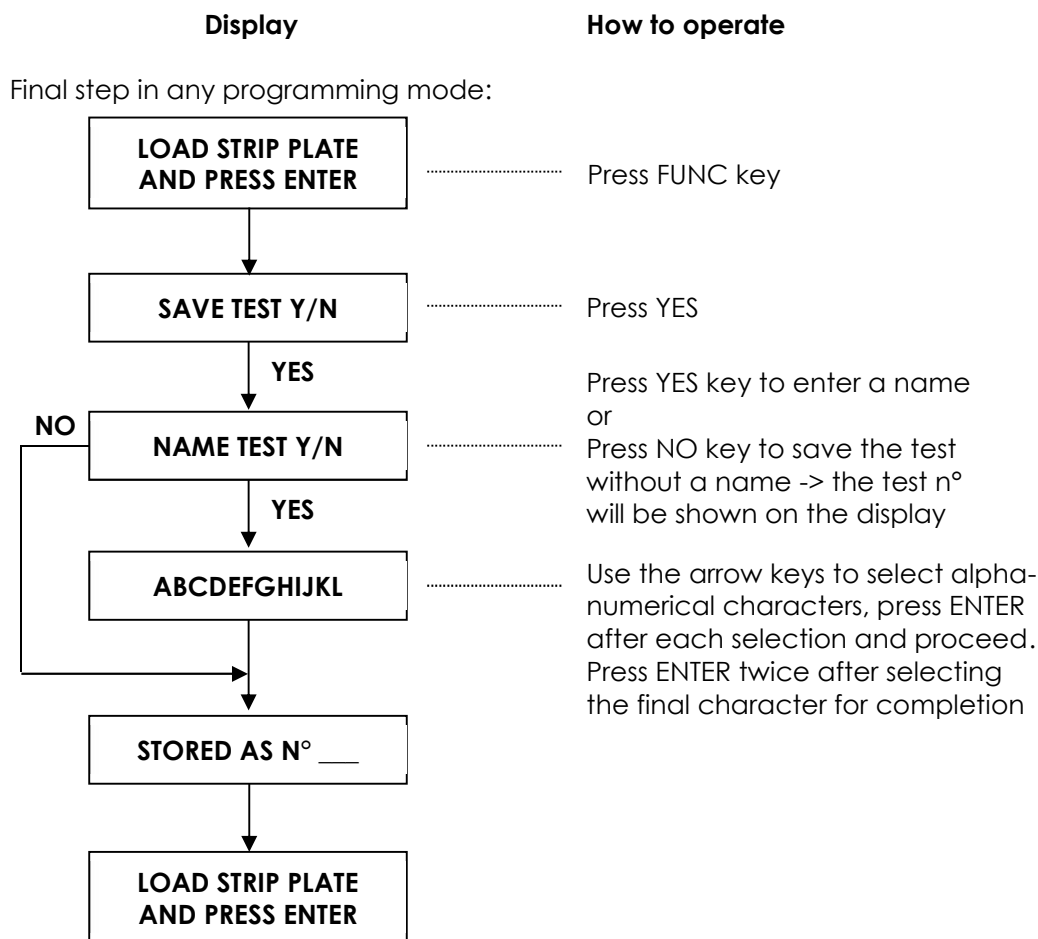


8.1.4. Setting date and time

Refer to paragraph 6.5.

8.1.5. Storing a test

While being in any programming mode, one can save a programmed test by following the steps described below.

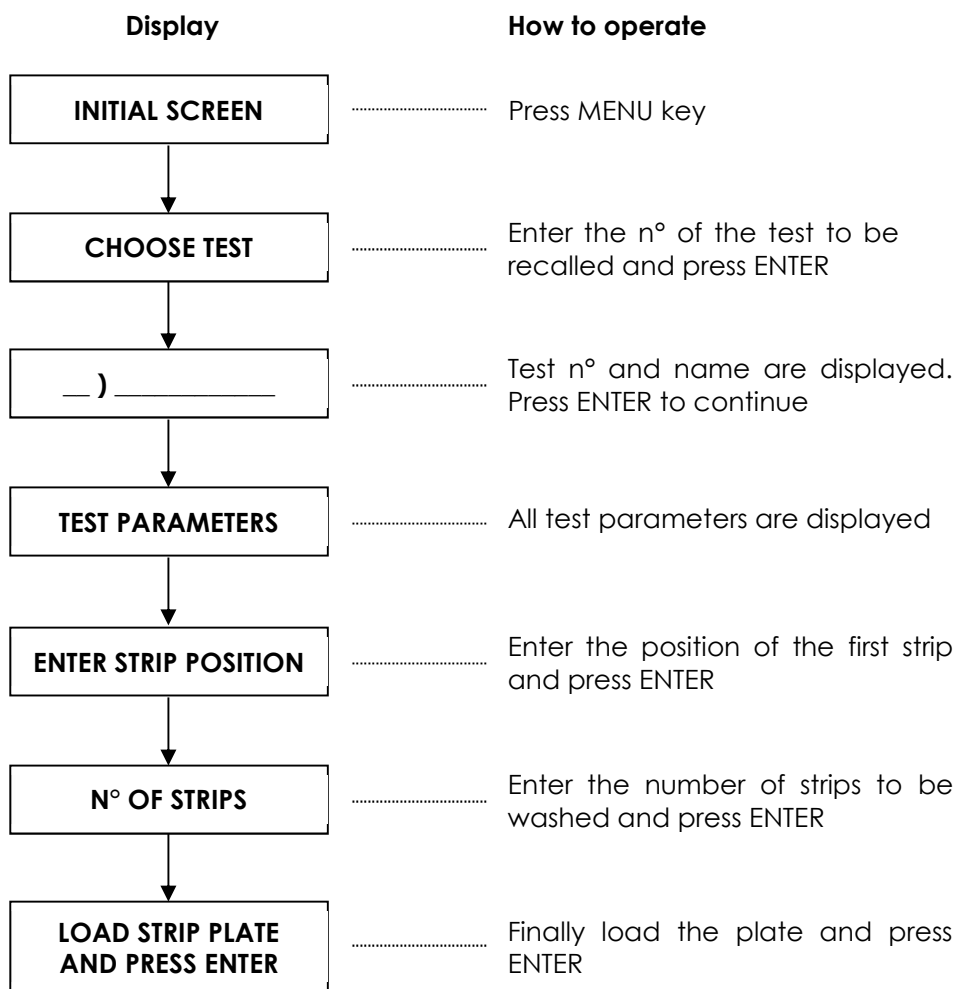


8.2. MENU KEY 

This key is used to recall and run a test by entering its test number.

8.2.1. Recalling a saved test

Any stored test can be recalled through the MENU key.



8.3. PRIME KEY 

Upon pressing the PRIME key followed by the YES key to start the process of priming, the peristaltic pump (prime motor) will continuously pump for a few seconds. Wash buffer from the wash bottle primes the tubing and manifold needles.

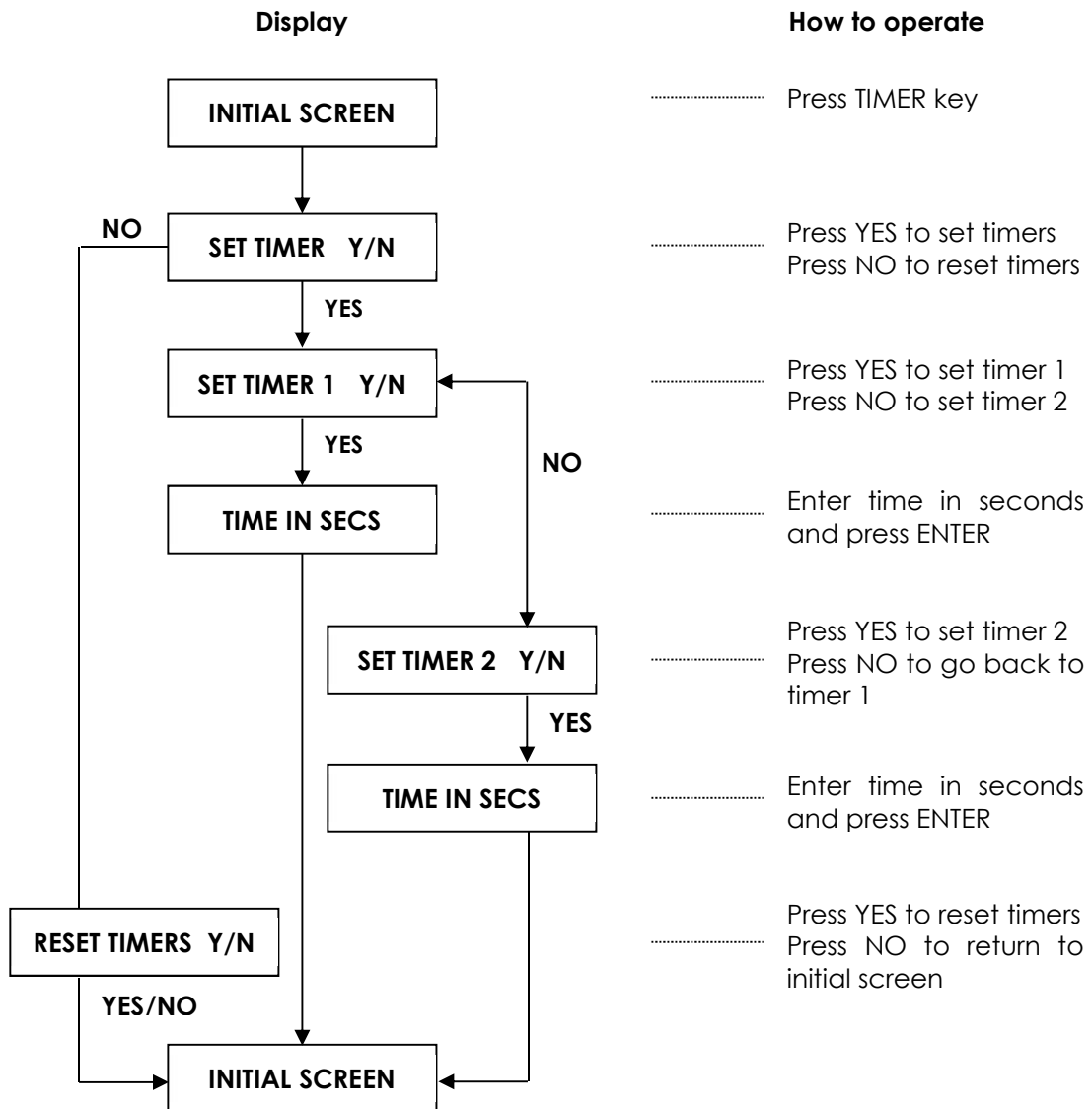
8.4. RINSE KEY 

Upon pressing the RINSE key followed by the YES key to start the process of rinsing, the peristaltic pump (rinse motor) will continuously pump for a few seconds. Distilled water from the rinse bottle rinses the tubing and manifold needles.

8.5. TIMER KEY



The A.D. Wash has 2 built-in timers that can be individually programmed.



Upon completion of the pre-set time, the instrument gives an audible alarm and the LED of the respective timer will lighten up. Press the CLEAR key to reset the alarm and to switch off the LED.

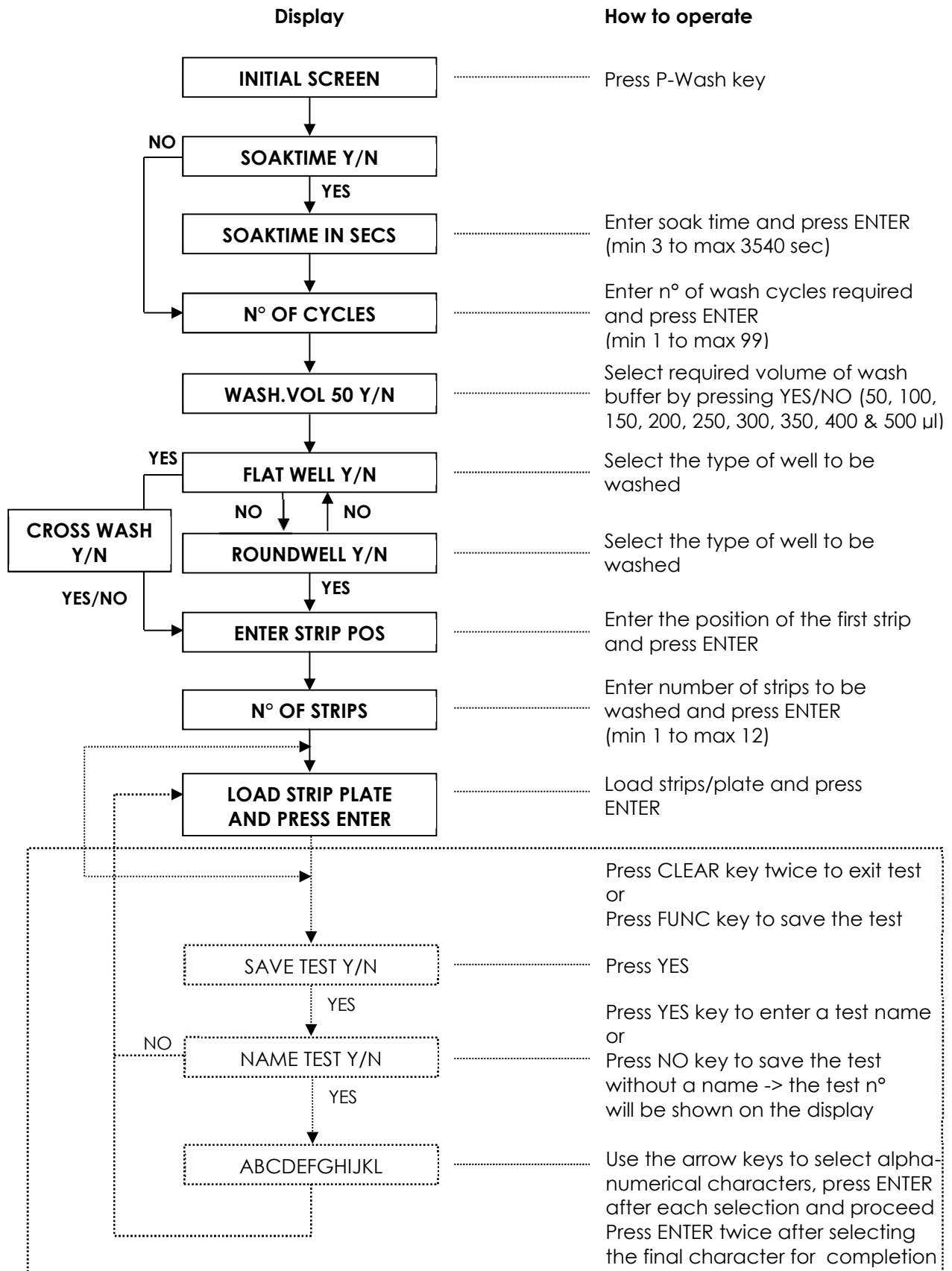
8.6. CLEAR KEY



The CLEAR key is used to abort any programming mode or to reset the timer alarm.

9. PROGRAMMING

9.1. PLATE WASH



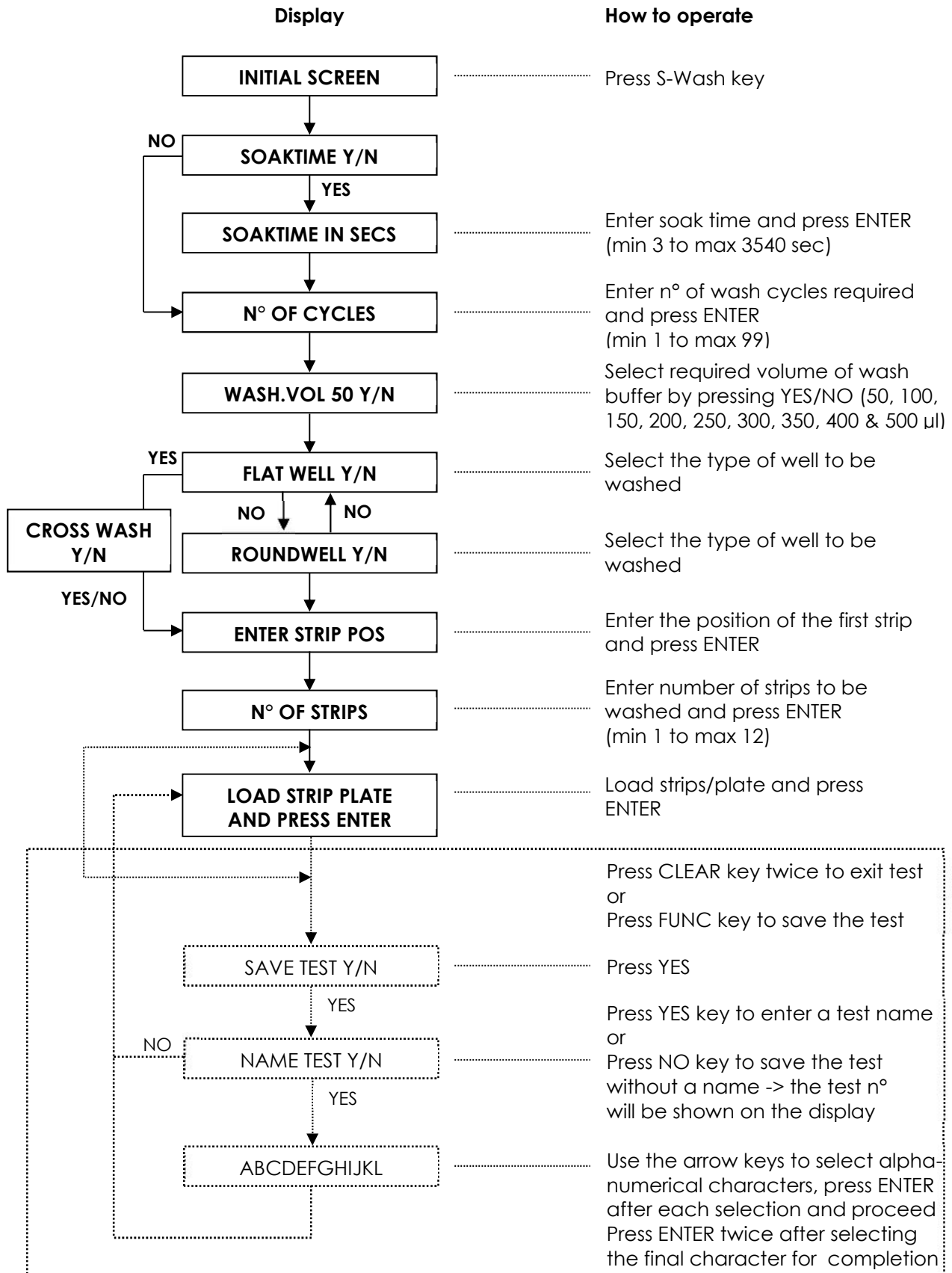
The plate wash (P-Wash) is used to wash a complete plate / all strips at once, meaning that each wash cycle is performed on the entire plate / all strips before proceeding to the next wash cycle.

The instrument aspirates the waste solution from the micro-wells and dispenses the programmed wash volume into the micro-wells. Aspiration is continuously kept '**ON**' to prevent overflow from one well another. After completing the dispensing cycle, depending on soak time, it starts aspirating the wash solution. Upon completion of the entire wash procedure, the instrument transports the micro-plate back to the home position.

During dispensing the needle tip is positioned halfway in the well.

Two variations on this washing procedure exist. If one prefers to have the dispensing needles just above the bottom of the wells during dispensing, choose Bottom Wash (B-Wash) (See paragraph 9.4). To dispense while the needles are on top of the wells, chooses Overflow/Top Wash (OF-Wash) (See paragraph 9.5).

9.2. STRIP WASH



The strip wash (S-Wash) is used to wash individual strips step by step, meaning that all wash cycles are performed on one strip before proceeding to the next strip.

The instrument aspirates the waste solution from the micro-wells and dispenses the programmed wash volume into the micro-wells. Aspiration is continuously kept '**ON**' to prevent overflow from one well another. After completing the dispensing cycle, depending on soak time, it starts aspirating the wash solution. Upon completion of the entire wash procedure, the instrument transports the micro-plate back to the home position.

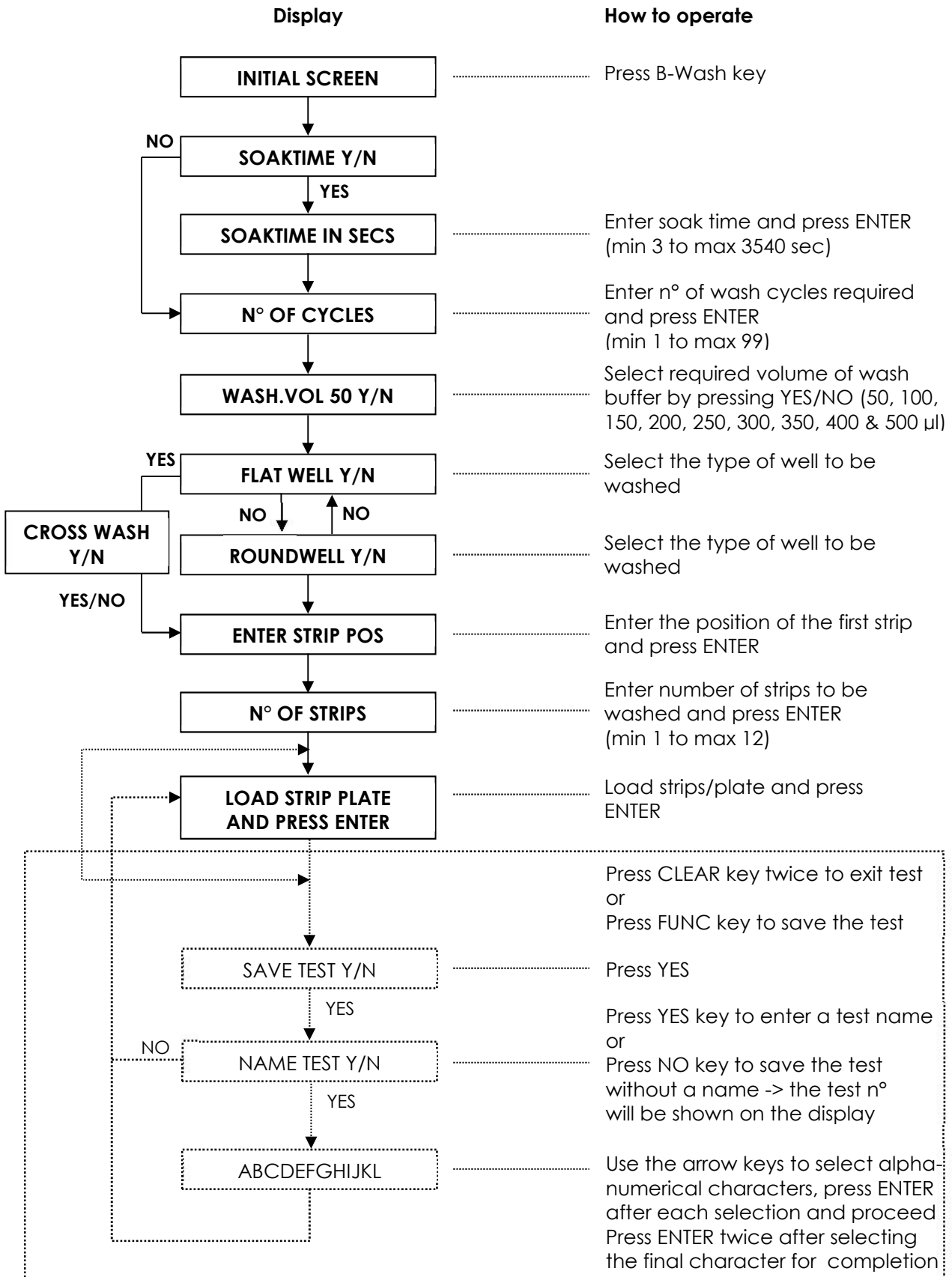
9.3. INCUBATION

The A.D. Wash contains a two-plate 37°C incubator, as well as two separate timers for the individual programming of both plates. After the set time elapses, the instrument gives an audible alarm as well as a notification on the display indicating the elapse of time.

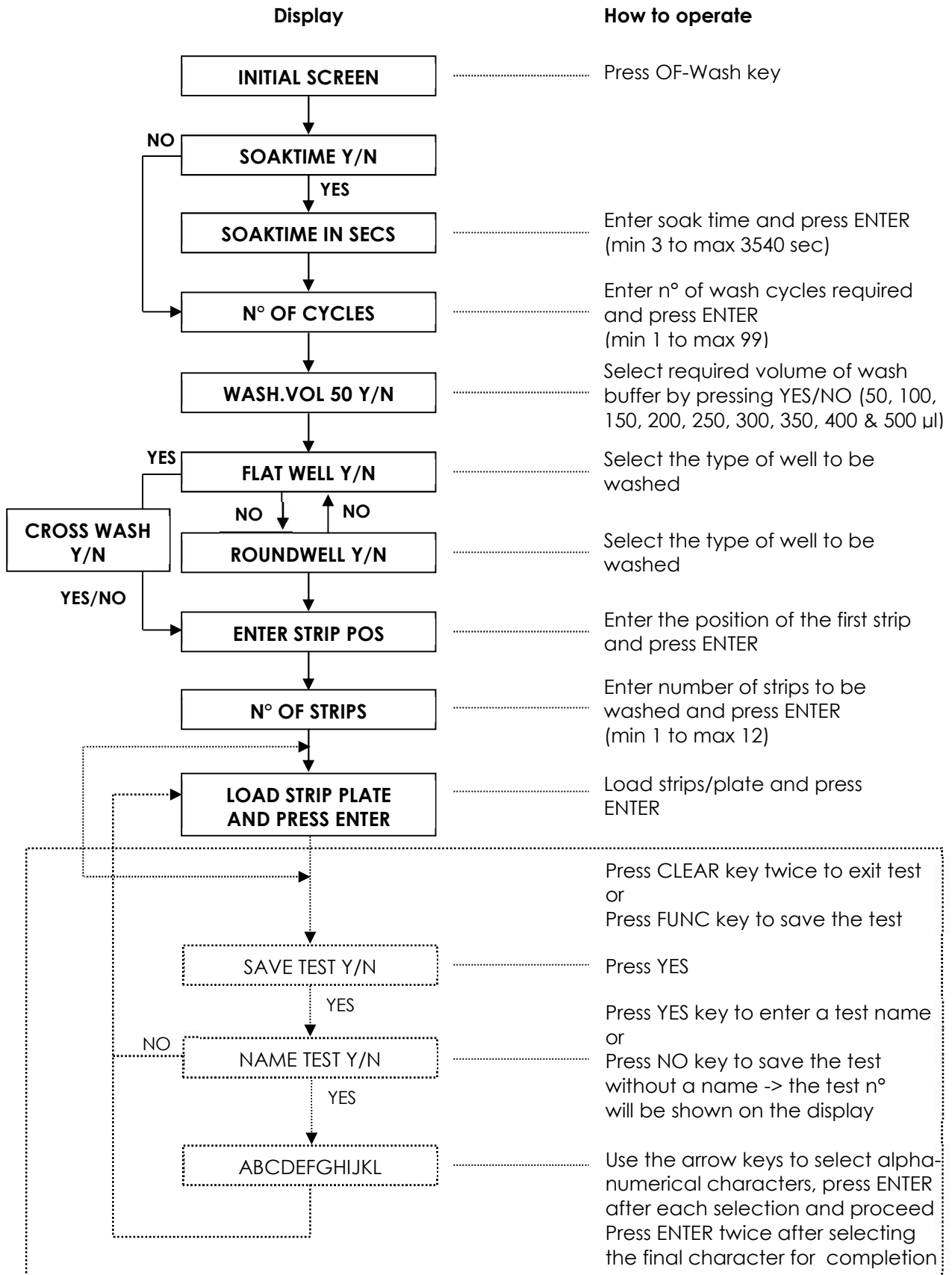
Please refer to paragraph 8.5 for the procedure to program the incubator time.

The incubator is activated when the instrument is in "power on" condition. It takes about 10-15 minutes to attain 37° C (this temperature is factory set).

9.4. BOTTOM WASH



9.5. OVERFLOW WASH / TOP WASH



9.6. PRIMING



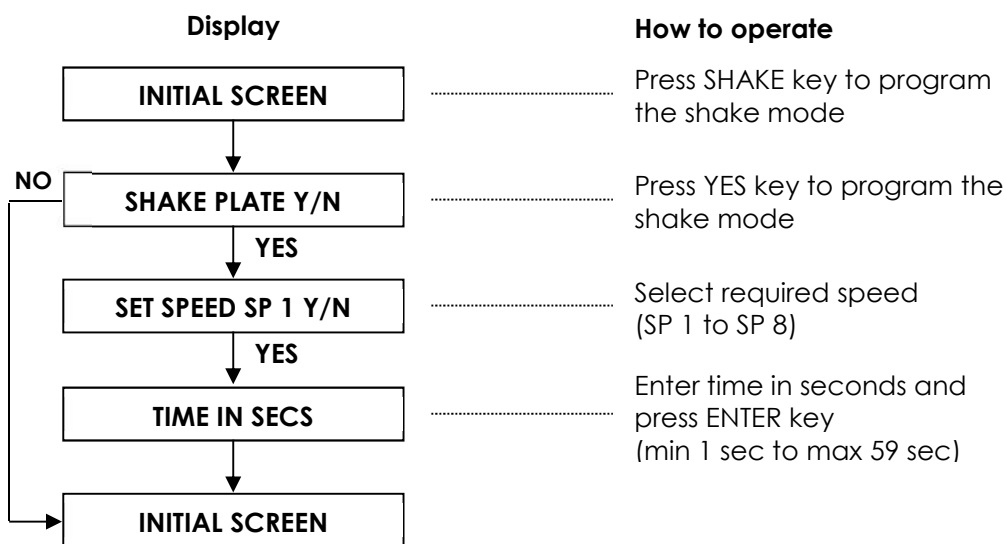
Please refer to paragraph 8.3.

9.7. RINSING



Please refer to paragraph 8.4.

9.8. SHAKING



9.9. DISINFECTION



Please refer to paragraph 8.1.1.

10. TROUBLESHOOTING

PROBLEM	SOLUTION
The manifold does not dispense	<ul style="list-style-type: none"> • Clean the path of the steel tubes using the needle cleaner provided • Check wash bottle tubing connections • Check valve direction
The manifold does not aspirate	<ul style="list-style-type: none"> • Clean the path of the steel tubes using the needle cleaner provided • Check the waste bottle cap and tighten it properly • Check waste bottle tubing connections
The instrument beeps continuously	<ul style="list-style-type: none"> • Check the sensor cable connection • Check whether the waste bottle is full • Check the waste bottle cap and clean the cap
Movement jam	Reset the instrument by pressing the CLEAR key twice or switch OFF and switch ON the instrument to bring the plate in home position. Insert the plate properly and repeat.
Memory full	If the number of saved tests exceeds 50 then delete an unwanted test and save the new test.

11. DECONTAMINATION

11.1. 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.

11.2. PURPOSE OF DECONTAMINATION

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

11.3. 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 always be 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 primary 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.

11.4. 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 n°: _____ Serial n°: _____

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 _____

13. SPARE PARTS

13.1. SPARE PARTS LIST

Name instrument: _____

Serial n° instrument: _____

Parts/components/modules	Code
Lock nut (any color)	10017
Bottle sensor cable	10024
Waste bottle	10026
Rinse bottle	10027
Wash bottle	10028
Waste bottle cap	10029
Manifold	10030
E cassette	10031
Silicon tubing	10035
Dust cover	10042
Cleaning needles (dispensing)	10046
Cleaning needles (aspiration)	10047

13.2. ORDERING SPARE PARTS

Parts subject to deterioration or defectives which need to be replaced, have to be ordered by giving following details.

Ordering the spare parts, the following data are to be mentioned:

- Customer's purchase order n°
- Name and version of the instrument
- Instrument code number
- Part code number
- Description of the part
- Requested quantity
- Name and company address for delivering the ordered goods

While replacing the parts, the use of ORIGINAL SPARE PARTS guarantees instrument efficiency and a long-lasting instrument lifetime.

14. PACKING LIST

Name instrument: _____

Serial n° instrument: _____

Number	Particulars	Quantity	Tick
1	A.D. Wash	1	
2	Power Cord	1	
3	Dust cover	1	
4	Manifold	1	
5	Rinse Bottle	1	
6	Waste Bottle	1	
7	Wash Bottle	1	
8	Waste Bottle Sensor Cable	1	
9	Rinse Strip	3	
10	Wash Bottle Tubing Green	1	
11	Rinse Bottle Tubing Orange	1	
12	Waste Bottle Tubing Blue & Red	1	
13	Extra Silicon Tube	1	
14	Aspiration Cleaning Needle	1	
15	Dispensing Cleaning Needle	1	
16	User manual	1	

Packed by: _____

Signature: _____