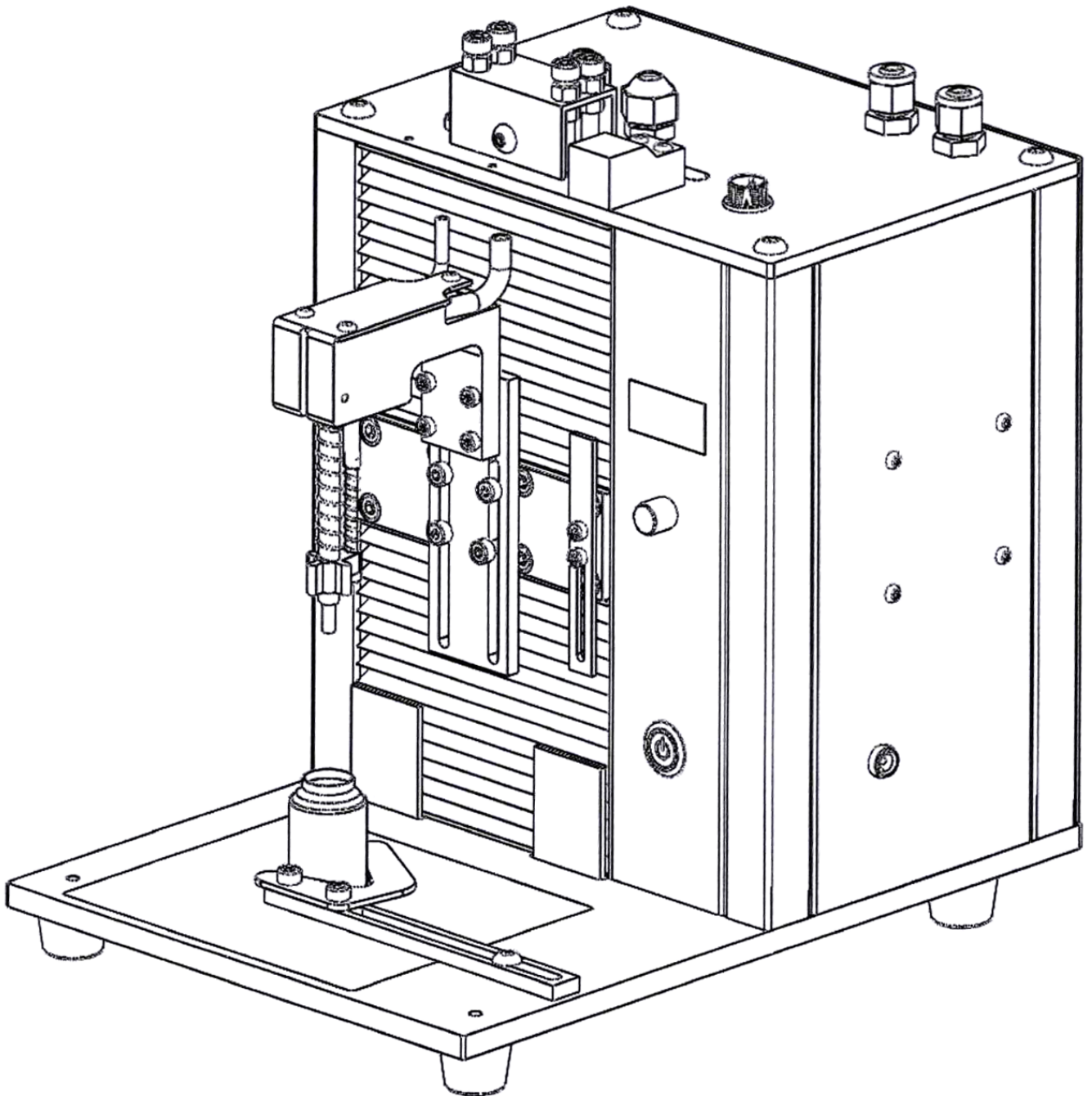


Filling Machine User manual



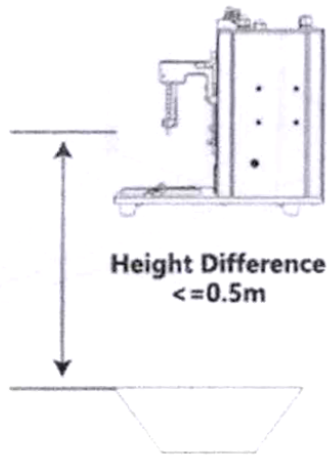
**Built
Best**

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This Full-electric filling machine can achieve equal liquid level filling even if the inside capacity of every bottles are different, it has intelligent control and adapting feature, also has washing function if it needs to change another type liquid.

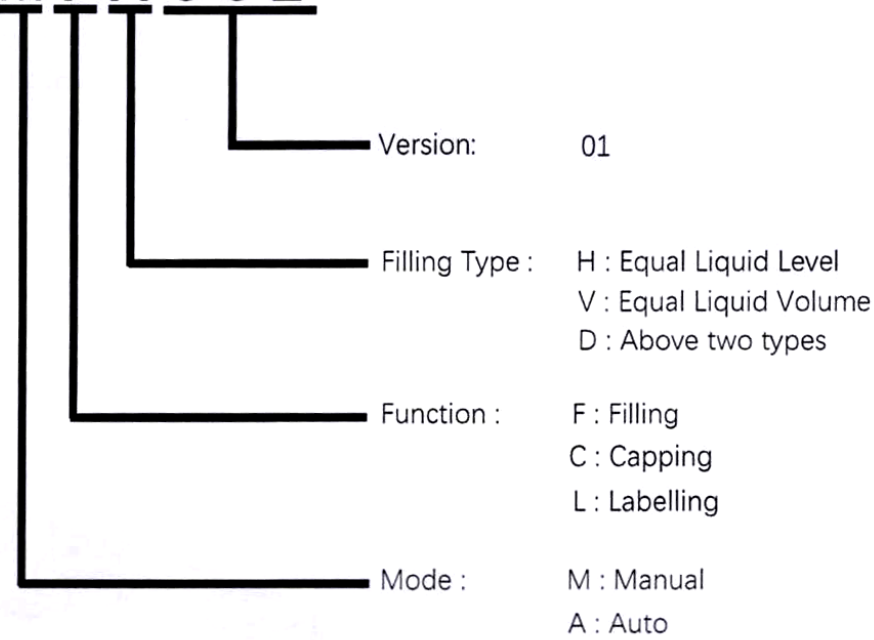


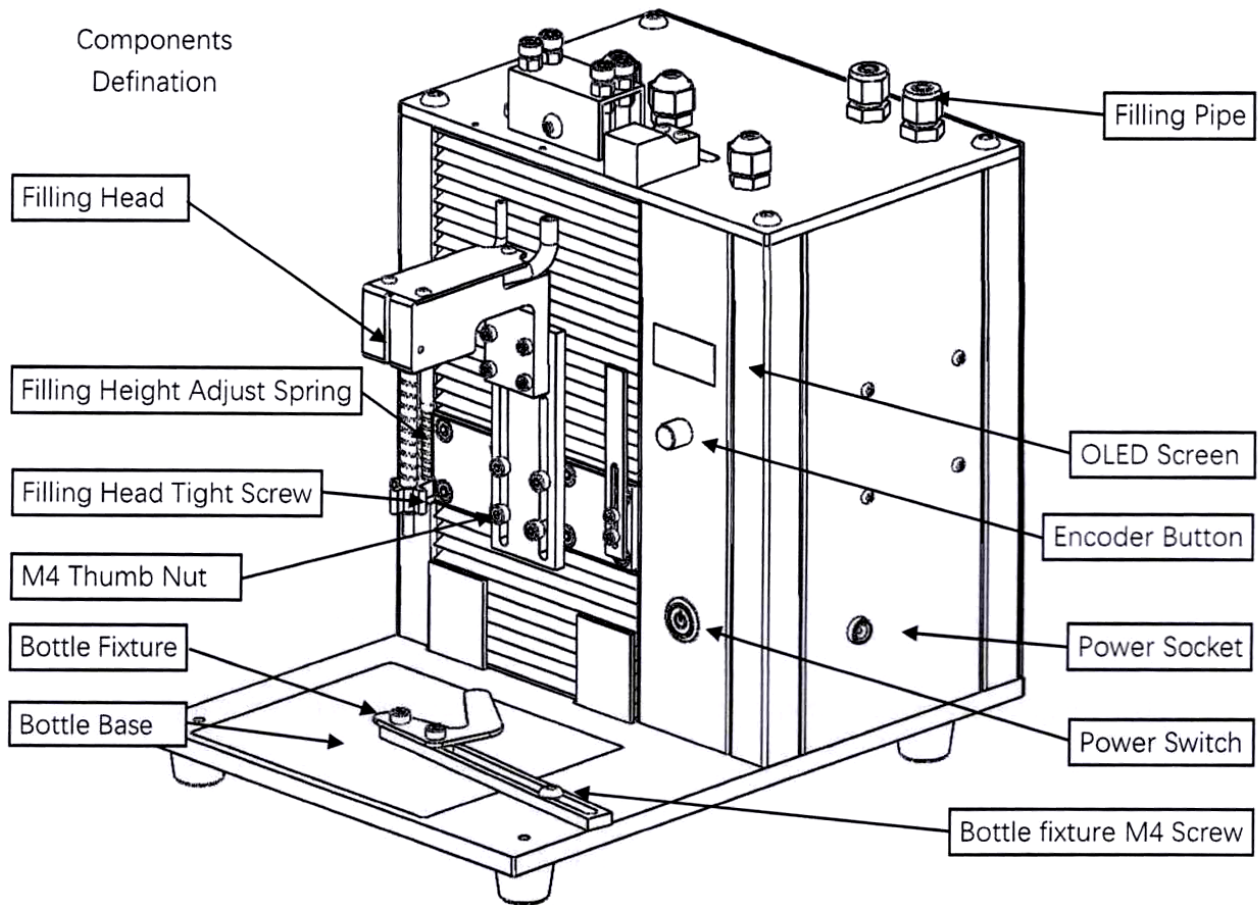
- It must avoid children closed to this equipment or any operations without reading user manual.
- Any unauthorized modifications or disassembly are beyond warranty.
- The height difference between this equipment and the filling liquid tank should be less than 0.5 meter at maximum height difference, certainly, it is best if they at same height.



Model Explanation

A M - M F H 0 0 1



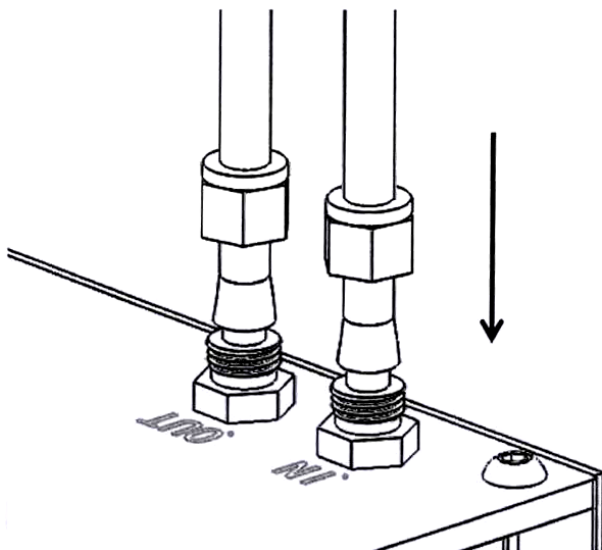


How to use

2.1 Preparation

2.1.1 Connect Pipe

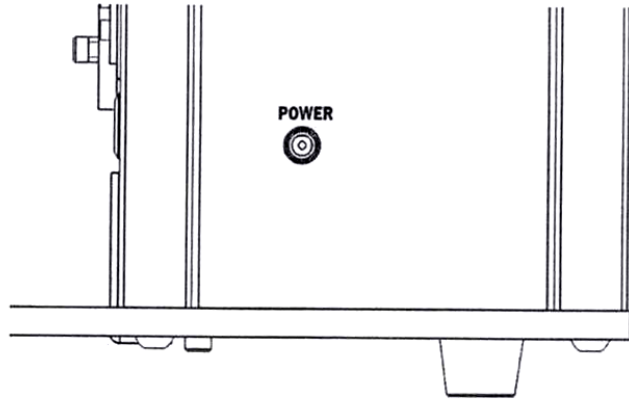
Connect one transparent pipe to the **IN** icon joint, and the other transparent pipe to the **OUT** icon joint. Also make sure the another terminal of **IN** icon pipe



- * Note : Please carefully check one terminal of the pipe is enlarge, it is easy to insert this terminal of the pipe into the joint.
- * Note : Please make sure the 'IN' icon pipe completely sink under the filling liquid level.

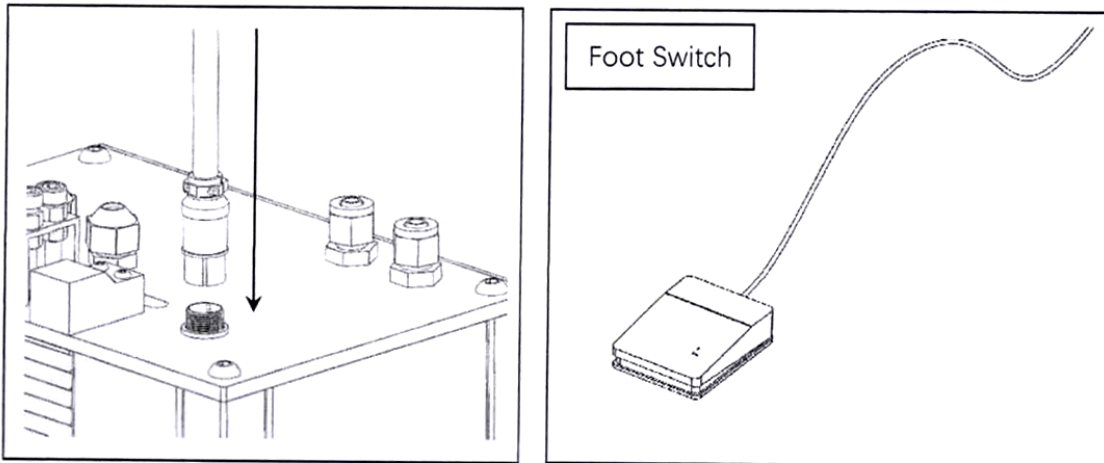
Connect Power.

Connect external power device into the machine body power icon socket.



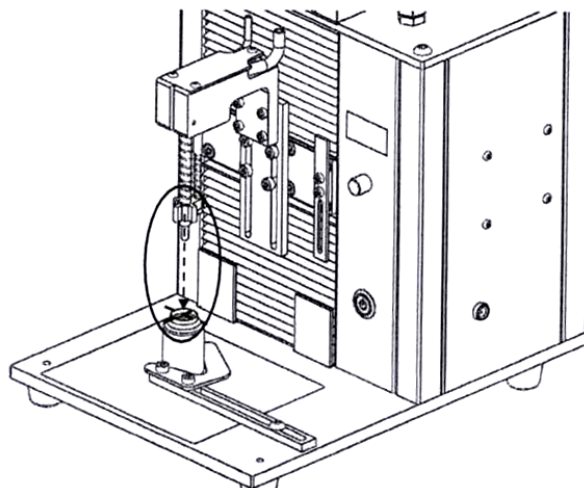
2.1.3 Connect the foot switch plug

Foot switch only requires in work mode 0,so it needs to connect before it starts running in mode 0.



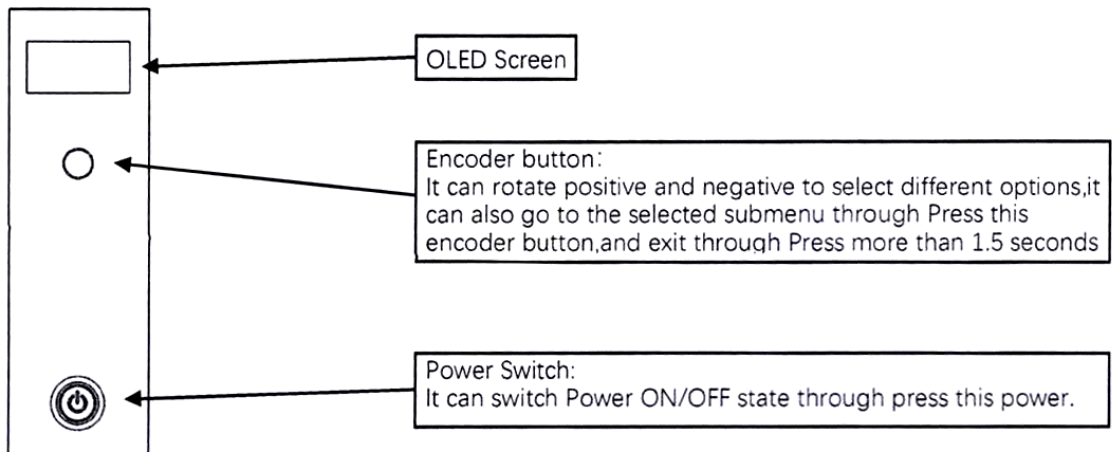
2.1.4 Adjust bottle fixture.

Choose bottle fixture head type,adjust bottle fixture position until the center of the bottle mouth align with filling head pipe after the bottle next to the bottle fixture.



Check and Set the system

2.2.1 Basic Operation



2.2.2 Work Mode

There are two work mode for MFH001.

Mode 0 : FOOT SWITCH MODE

Explanation: It can fill one bottle after one foot step on the foot switch.

It can use encoder button to change P-01=0 in parameter page [Setting Mode]. [SEE 2.2.4 Parameter P-01]

Then it can start the filling in the following flow diagram [See 2.2.3 Workflow diagram].

It will filling the bottle after foot steps on the foot switch after the OLED display State is waiting.

Mode 1 : CYCLE PRODUCTION MODE

Explanation: It can fill the bottle without the foot switch after enable it, i.e., MFH-001 filling head will go down and up until it detect the bottle, then filling it, loop the above procedures.

Here introduce P02 parameter [SEE 2.2.4 Parameter], it can achieve the most efficient production to cooperate different bottles or the different users put bottle speed. In a easy word, if the filling head go up and down quickly without stop, the user may not have enough time to put bottle to the good position. so we add this holding time to make sure the user can put the bottle to the good position every time. Certainly, it does not need to worry about no bottle when the filling head go down to detect the bottle, the filling head will go up automatically after it reach the bottom, it will not happen the filling head hit the bottom base condition.

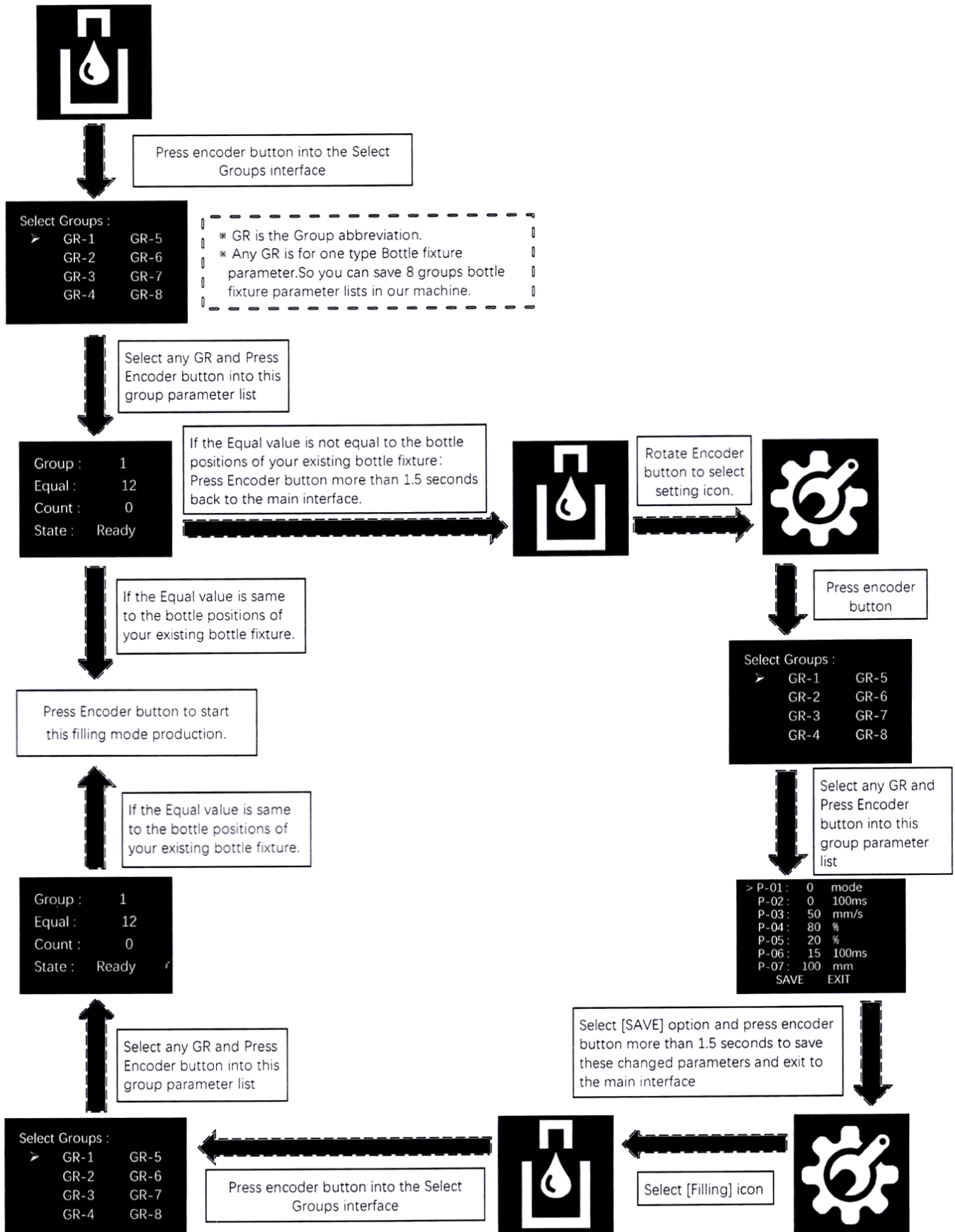
2.2.3 Workflow

Press Encoder button into the main interface.

Press Encoder button again into this group parameter list, check it is whether equal to the bottle positions quantity of the existing bottle fixture. If it is same, Press Encoder button again, the machine will automatically run according to your selected work mode.

If it is Mode 0, it means it will start filling the bottle after foot switch triggered.

If it is Mode 1, it means it will loop the filling and waiting for pre-set holding time every time.



Code	Parameter Name	Description	Unit
P-01	Work Mode	0 : FOOT SWITCH MODE 1 : CYCLE PRODUCTION MODE	-
P-02	Holding Time	It is active only when P-01=1. It is the holding time after the filling head go up to the top origin position and and before go down to detect the bottle again.	100ms
P-03	Descent Velocity	The filling head descent velocity.	mm/s
P-04	Fast Filling Velocity	The percentage of the maximum filling process velocity,it is the initial filling process velocity.	%
P-05	Slow Filling Velocity	The percentage of the maximum filling process velocity,it is the filling velocity after detecting liquid reach the filling pipe mouth.	%
P-06	Slow Filling Time	The slow filling running time.It is the slow filling total time after detecting liquid reach the filling pipe mouth.	100ms
P-07	Maximum Descent Distance	The maximum distance of the filling head descent to detect the bottle mouth every time.	mm

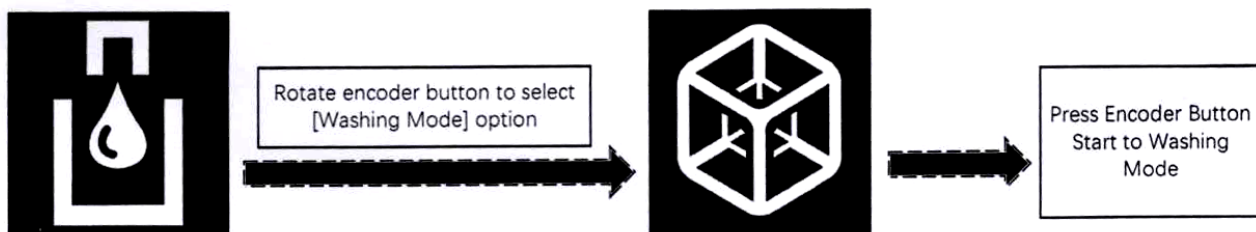
2.3 Washing Mode

Washing Mode is that it can drain out the filling liquid in the machine at maximum when you want to filling another type liquid.

Before Enable/Open [Washing Mode],it needs to prepare for two steps:

- ① Put one empty cup below the filling pipe on the bottle fixture.
- ② Take out the 'IN' icon pipe to avoid the machine continue inhale the filling liquid.

How to Enable [Wash Mode]



2.4 Trouble Shoot

Error	Solution
Filling head not work after it enter into work mode page	Check OLED screen State is whether Ready. If it is ready,it means it does not start until now,it needs to press encoder button to start it officially again.
Filling height not steady when filling small bottle	First try to Increase the P-06 value until it is steady again,also you can also change the decrease P-05 value a little. Second,if it is also not good enough,decrease P-04 value.
Too slow filling for your bottle	Change the P-04 value to 100 at maximum and decrease P-06 value.