

### 3. INSTALLATION

#### 3.1. CHOOSING THE ROOM

In order to switch off the machine, turn the main switch to its “O” position and disconnect the power cable from the socket.

**NOTE: in order to disconnect the machine, the operator must not rely exclusively upon the power switch, but must also unplug the machine power cable.**

#### 3.2. PRODUCT LABEL AND ELECTRICAL CONNECTION

Make sure that the system meets the electrical requirements specified on the machine nameplate, then connect the power cable to the socket.

- Model: machine model
- Type: machine type
- Vnom: power supply voltage
- Hz: mains frequency
- I<sub>max</sub>: absorbed current
- SN: serial number
- Made in Italy: year of manufacture
- Fuse Rate: fuse value

The machine is equipped with a detachable power cable for connection to the mains.

Connect the machine to the mains using exclusively the cable supplied.

Always make sure that the voltage output from the mains is compatible with the nameplate specifications.

  	
COLORPAINT DISPENSER <small>Headquarters: Via Caduti di Ustica 28          I-40012 Calderara di Reno (BO) Italy          051 0828494 - www.alfacolorpaints.it</small>	
Model	<b>COLOR TESTER</b>
Type	<b>AUTOMATIC DISPENSER</b>
V <sub>nom</sub> ~	<b>100-240V</b> Hz. <b>50/60</b>
I <sub>max</sub> ~	<b>2.5-1.7A</b>
SN	<b>20150100000</b>
Made in Italy	<b>2015</b>
 <b>WARNING</b> 	
<small>TO AVOID ELECTRIC SHOCK THE POWER CORD PROTECTIVE GROUNDING CONNECTOR MUST BE CONNECTED TO GROUND DO NOT REMOVE COVERS. REFER SERVICING TO QUALIFIED PERSONNEL</small>	
<b>FUSE RATED <b>T2.5 A</b> - 250V</b>	
<small>For continued protection against risk of fire replace only with the same type and rating fuse</small>	



**USE ONLY LISTED DETACHABLE POWER SUPPLY CABLES NOT EXCEEDING 4.6 M. LENGTH, TYPE SVT OR SJT, 3X18 AWG 10 A, WITH GROUND CABLE.**

To ensure the correct machine operation and the highest safety level, it is essential that the machine is connected to ground. Make sure that the system is connected to a power supply with an efficient ground.



**WARNING: ONLY CONNECT THE MACHINE TO ELECTRIC SYSTEMS PROVIDED WITH GROUND CIRCUIT CONNECTION COMPLIANT WITH THE NATIONAL STANDARDS.**

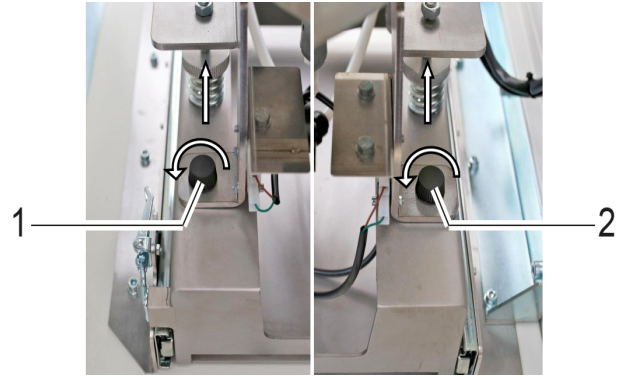
#### 3.3. REMOVING THE MECHANICAL RETAINERS

Some mechanical retainers prevent movement of machine components to avoid damage during transport. After unpacking and before commissioning, remove all mechanical retainers as follows:

### 3.3.1. MASTER TANK RETAINER REMOVAL

Tanks are fastened to the lower pull-out tank by means of screwed knobs.

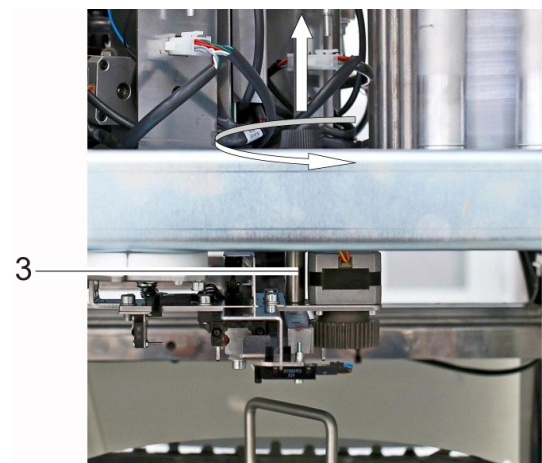
- Remove the knob retaining the left tank (1) and right tank (2), so as to enable master reserve detection system.



### 3.3.2. CARTESIAN SYSTEM-GRIPPERS RETAINER REMOVAL

A stud bolt fastens grippers and the Cartesian system.

- Remove pin (3) visible on dye level and screwed onto Y axis.
- In some models the Cartesian axis may be locked in LH stop position with ties. In this case, cut the ties with cut-off scissors or scissors to free the gripper.



### 3.3.3. DYE TANK RETAINER REMOVAL

During transport, canister supports are fastened to the pump unit underneath.

- Each colorant group is fastened by means of the screw (4).
- Remove all retaining screws (4) from colorant groups, using a 4 mm Allen wrench.
- Remove also the polyurethane protection between the canisters.

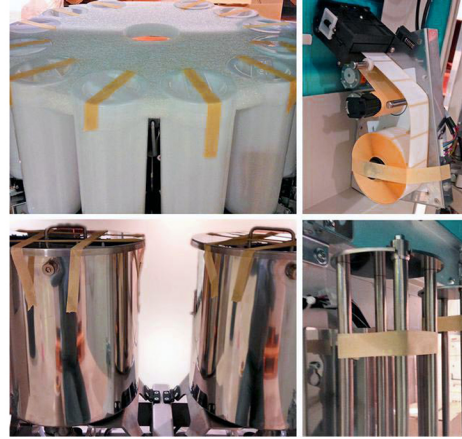
To make access to units easier, it is recommended to remove the upper panel located on machine back side, and refit it once the operation has been completed.



### 3.3.4. MASTER COVER AND OTHER GROUPS RETAINER REMOVAL

Remove the securing tape:

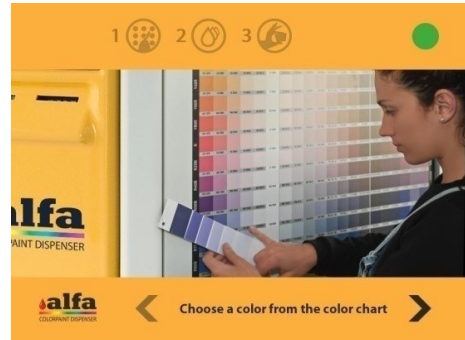
- The colorant canister lids;
- The printer reel.
- The stainless steel covers on tanks;
- The removable rods of lids storages;



Collect all knobs and retaining accessories in a bag and store the bag in the accessory compartment above the left corner door.

### 3.4. SWITCH-ON

- Set the On/Off switch to “I” and check that display turns on.
- If, after a few minutes, the machine shows the starting page, the Color Tester is ready for commissioning and use.



**WARNING** If the display illuminates but does not quit the boot page or does not show the user interface after a few minutes, switch off the machine and contact the technical service.

### 3.5. SWITCH-OFF

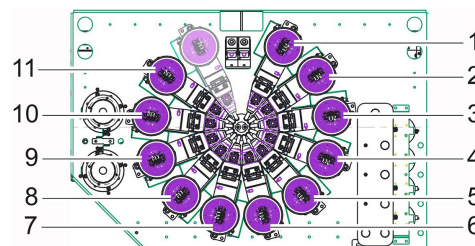
In order to switch off the machine, turn the main switch to its “O” position and disconnect the power cable from the socket.

**NOTE:** in order to disconnect the machine, the operator must not rely exclusively upon the power switch, but must also unplug the machine power cable.

### 3.6. COMMISSIONING AND LOADING

#### 3.6.1. DYE TANK LOADING

Each colorant group is matched to a hardware address. By convention, colorant order is as shown in figure below. The canisters are always marked with labels from C1 to Cn, according to the actual number of present circuits.



The position-colorant association can be viewed by accessing the special software section.

Such associations can be modified by qualified TECHNICAL personnel. For further information, refer to the Software manual.

Upon first installation, the technician must set the proper tinting system and fill the tanks according to the proper sequence.

Then, trigger the circuits and leave them in recirculation mode for the time needed (see chapter 3 - RECIRCULATION).

**WARNING:** Do not overfill the tanks (see chapter 5 - COLORANT AND PAINT TANKS TOP-UP).

The tinting system loaded on the machine can be changed, as well as the colorant software indexing. These operations are reserved to authorised technical staff.

To see or change the positions associated with each colorant, please refer to machine configuration (ref. "Software manual").

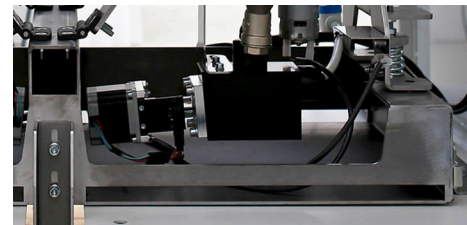


### 3.6.2. LOADING MASTERS

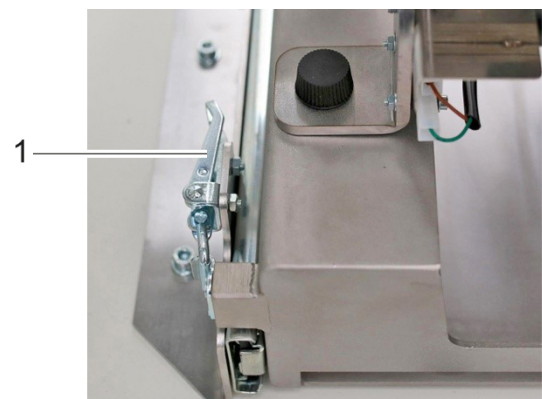
White and transparent masters must be loaded on 23-litre stainless steel tanks present in the lower part of the machine.

Fill as follows:

- Position any vessel or sheet inside the master tray, underneath the tanks, inserting them through the front slit.



- Open hook (1) retaining the master pull-out tray



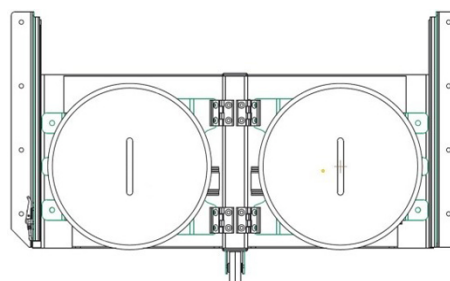


## Operator Manual – Color Tester

- Pull out base tray (2) and fill the tanks with neutral and transparent master , according to the sequence required by the software.
- **WARNING:** Tank capacity is 23 litres each. Do not overfill the tanks
- If you accidentally spill some product outside of the tank, remove and clean the relevant removable collector tanks.



- The standard configuration requires the use of neutral paint in the left tank and white paint in the right tank.
- Acknowledge loading of colorants and masters through the software



### 3.6.3. CANS STORAGE LOADING

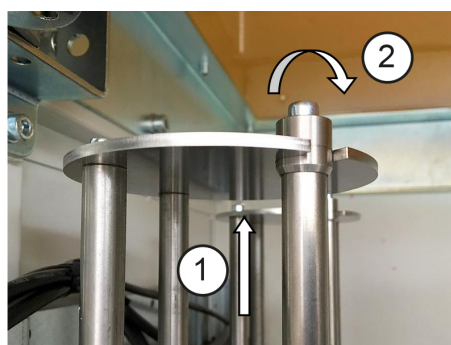
Insert 100 cc cans (approved 160 ml version) in the magazines, to fill the four columns available to maximum capacity. It is recommended to only use the cans approved for the Color Tester (see para. 1.4.1.4).

### 3.6.4. COVER MAGAZINE LOADING

To easily load the two cover magazines, first remove the removable side bar.

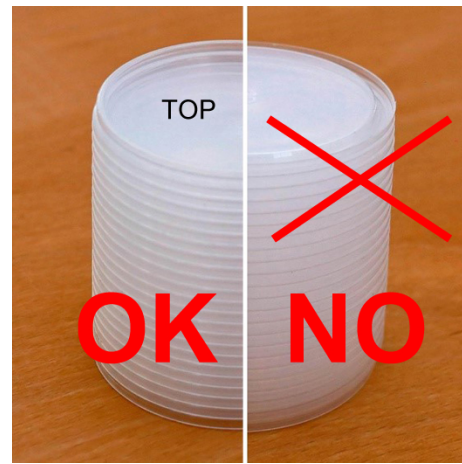
To remove the bar, slightly lift it (1) and slide it out of the top slot (2), then store it in a safe place.

Fill the column to maximum level considering the thickness of the counterweight that must be inserted at the top of the cover column when repositioning the previously removed bar.



**PAY ATTENTION TO INSERT COVERS IN THE PROPER DIRECTION.**

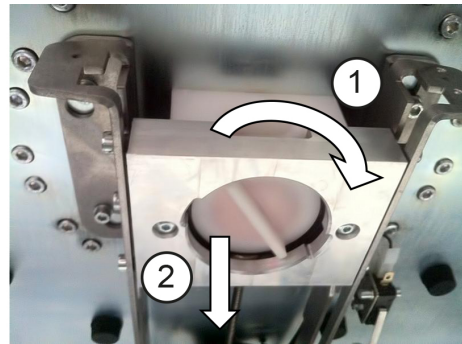
Once magazine is full, reposition the previously removed bar and make sure it is properly in place.



**3.6.5. AUTOCAP MOISTURISING**

It is recommended to periodically wet the dispensing nozzle sponge as described below:

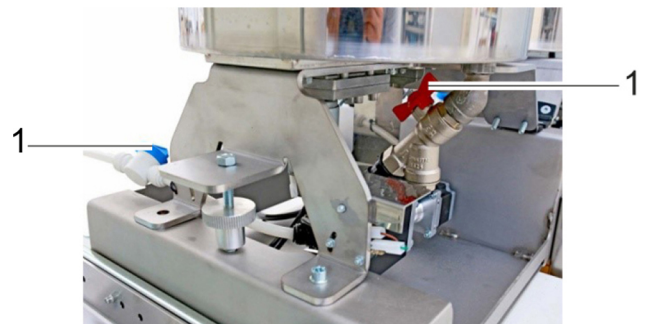
- Loosen sponge holder cap in the lower part of the autocap system (1) and remove it from its seat (2);
- Wet the sponge (use water mixed with glycol);
- Refit the cap to its original position.



**WARNING:** Ensure that water will not exceed the sponge level to avoid contaminating the nozzles

**3.6.6. MASTER CIRCUIT OPENING**

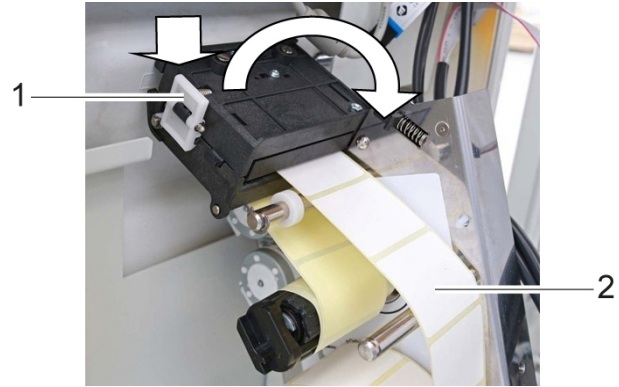
Under the tanks there are the relevant pumping units provided with shut-off valves (1). Upon commissioning and before testing the circuits, check that the valves are open.



### 3.6.7. PRINTER ROLL LOADING

Load printer roll as follows:

- Open roll outlet head by pressing the relevant lever (1);
- Insert the roll with labels (2) following the instructions found on printer on-board schematics.



**WARNING:** Only use manufacturer-approved rolls.

### 3.6.8. SWITCH-ON AND INSPECTION

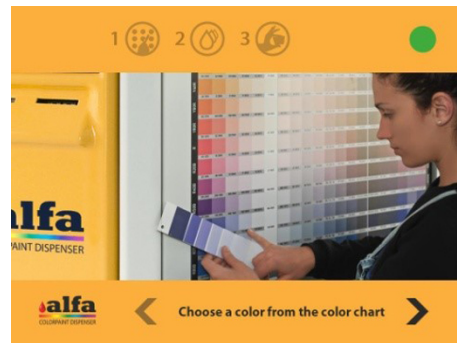
After completing the above steps, the machine can be switched on using the main switch located on the back panel (see para. 1.4.1.2).

After the boot, after approx. one minute, the touch screen must display the screen shown on the side.

If the machine shows alarm or error warnings, check type of alarm and take the required steps to restore proper operation (see Chapter 8 – "Trouble Shooting").

If machine does not switch on, check that power voltage is correct and fuse is not blown.

For further details on malfunction issues, please refer to Chapter 8 "Trouble Shooting".



### 3.6.9. CIRCUIT TRIGGERING AND RECIRCULATION

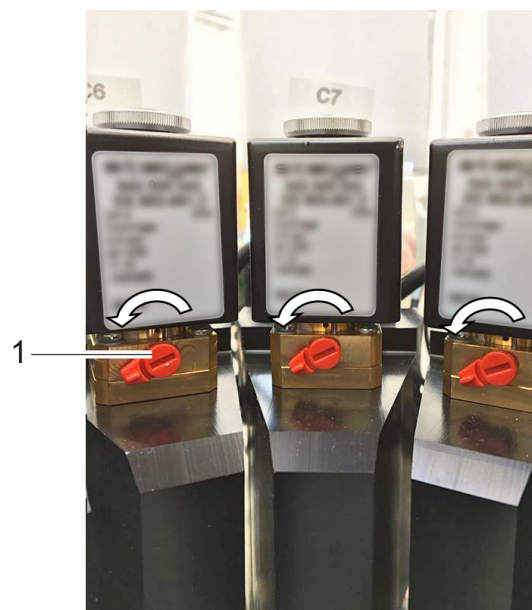
Before using the machine, trigger circuits and leave them in recirculation mode for at least 12 hours.

To remove air from the colorant circuit pump, it is recommended to manually drive the valve of each circuit and wait that the colorant, thanks to the head pressure, fills the pump until it spills out of the relevant nozzle.

Therefore it is recommended, in this order, to:

- Open the autocap;
- Position a container with proper capacity under the dispensing nozzle;
- Remove canister lids;
- Open valves (1) of the colorant circuit to be triggered;

At the end of the operation, close the valves, clean the nozzle with a dry and clean cloth taking care not to cross contaminate the nozzles, and close the autocap again.



Finally, it is recommended to leave the machine in stand by mode for at least 12 hours, a period of time usually sufficient to remove residual air from circuits.

### 3.6.10. SETUP OF CIRCUITS

The machine is now ready to be initialised or for producing the first sample.

Typically, the machines leave the factory with all circuits already characterised and ready to be used with the colorants of the tinting system specified in the order.

When using dyes that are not yet characterised on a software level, the circuits need to be set up first.

An incorrectly characterized machine can cause significant color production errors. Circuit setup is a procedure reserved for expert technicians so, if necessary, contact Alfa-authorized Technical Service. Circuit setup execution modes are described in the Software Manual.

Once the recirculation and setup stages are completed, the machine is ready for dispensing a test sample and commissioning.

Refer to "How to produce a sample" to perform a test production run.

### 3.6.11. CHECKING THE OPERATION OF THE SAFETY DEVICES

In order to ensure trouble-free operation in maximum safety conditions, it is necessary that door interlock switches operate properly.

Before attempting any maintenance operation, check that the machine indicates an alarm warning when front door is opened, also requesting operator to enter the password in order to enter service mode.

When door is closed, the machine will run a reset cycle and then go back to standard operation.

If the machine fails to work as described, it means that the safety devices are not operating properly. In this case, switch off the machine and contact the technical service.

### 3.6.12. SETTING THE PASSWORD FOR TECHNICIANS

Access to maintenance and diagnostics functions is only allowed to MAINTENANCE OPERATORS after entering the relevant password.

Factory settings are password= "ALFA". The password can be changed at any time by system administrator.

Access for TECHNICIANS requires a different password and allows higher level access. This password is released by system supervisor ADMINISTRATOR.

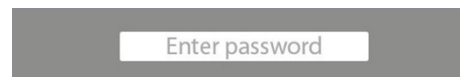
After access, the MAINTENANCE OPERATOR can carry out the first level diagnostics and reset the alarms.

As soon as maintenance is completed, it is recommended to remember to log out.

A time-out forces automatic logout after 6 minutes of inactivity (value can be edited through the administrator's interface – See Software Manual).

System administrator can create new users with different credentials and customised passwords. It is recommended to carefully store the password since it is not saved anywhere so it cannot be recovered if lost.

If you lose the password, contact system administrator and request a new temporary password.



**ALFA**



## 4. HOW TO PRODUCE A SAMPLE

### 4.1. PRODUCTION OF A COLOUR SAMPLE

After system installation (see Chapter 3), you can now start producing a colour sample as follows:

- Check required shade of colour on colour chart and take note of the code.



- On the display, press the black arrow on the right of “Choose a color from the color chart” message.



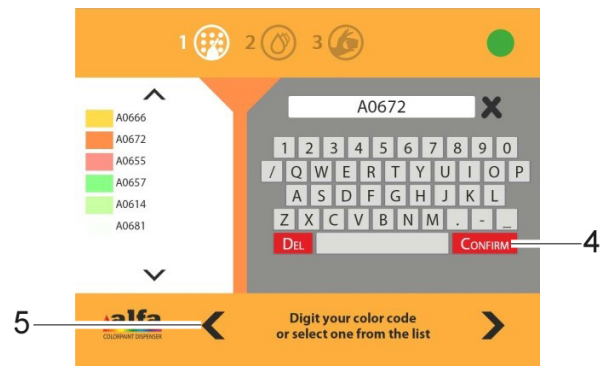
- Enter required colour code via the virtual keypad.
- Use the “up” and “down” arrows (1) in the left column to scroll the codes and select the colour.
- To correct any typing errors, use “DEL” or “X” (2) on the right-hand side of the entry field.



- As soon as the code is entered, the left-hand column will display the available choices and all similar codes (3). User can complete selection at any time by pressing the corresponding colour.

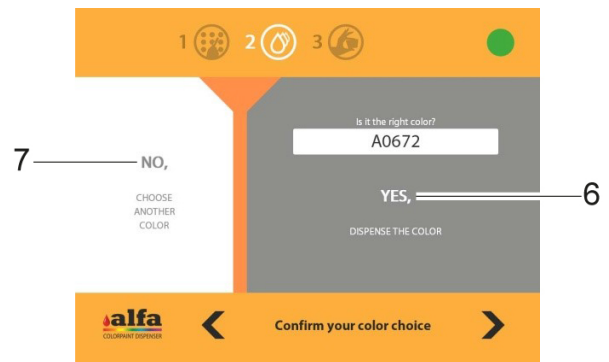


- Once code is entered, validate selection by pressing “CONFIRM” (4).
- Press the left arrow (5) to go back to initial screen at any time.



- On the following page, press “YES” (6) to proceed with colour dispensing, or “NO” (7) to change selection.

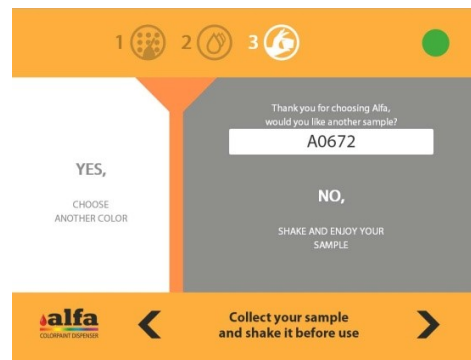
**WARNING: Once you press “YES” it will no longer be possible to change selection or abort cycle.**



- The following page graphically shows sample production progress.



- Once completed, the message on the side is displayed and user can pick sample from output drawer.
- Press “YES” in the left box to start a new colour selection and produce a new sample. Press “NO” to go back to initial screen



- Take sample from output drawer and label (8) bearing colour code and production details.
- Apply the label to the can to identify the details of the produced color.



## 4.2. COLOUR SAMPLE STIRRING

The colour sample must be properly stirred before use.

- Strongly shake the sample for a few minutes before use.

On the side is the sample just after production and not stirred (on the left) and then the same sample after proper stirring (on the right).



- Remove the safety tear-off tab (9) and lift the cap to open the sample.
- If necessary, use a brush to further mix the product, carefully removing any residues of colour or white from vessel walls.
- Close can using the previously removed cap after use.
- After use, dispose of the can in suitable collection centres.



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