
SABLOMATIC



MANUALE DI ISTRUZIONE MANUALE MANUTENZIONE

INSTRUCTIONS MANUAL MAINTENANCE MANUAL

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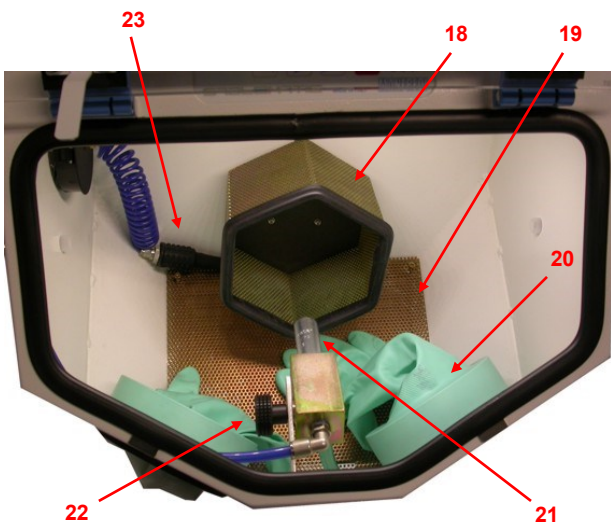
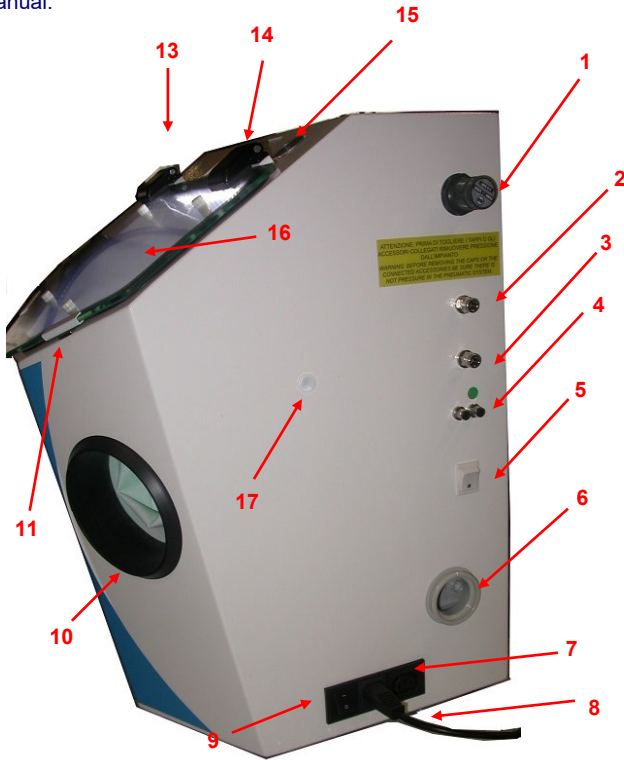
SABLOMATIC

INTRODUCTION

The present instruction Manual forms integral part of the machine supply and it must accompany the machine during any transfer.

This Manual must be carefully preserved during the whole lifetime of the machine and it must be held within reach for at least ten years. The place where it is kept must be well known and at hand to all the involved people.

Do not connect or start up the machine before reading this Manual.



Pict.1

- | | |
|-----------------------------------|-------------------------------------|
| 1 Pressure reducer | 13 hinge |
| 2 Compressed air connection | 14 keyboard |
| 3 External accessories connection | 15 pressure gauge |
| 4 pedal connections | 16 lid |
| 5 Switch for accessories | 17 opening for external accessories |
| 6 Suction unit connection | 18 basket |
| 7 socket for suction unit | 19 grid |
| 8 power cord | 20 gloves |
| 9 main switch | 21 nozzle |
| 10 hand opening | 22 nozzle adjusting knob |
| 11 handle | 23 air syringe |

TECHNICAL SPECIFICATION

SABLOMATIC is available in the following versions	
230V 50Hz	
230V 60Hz	
Max. power rating (without suction unit)	50 W
Maximum power for the suction unit (if connected to the machine socket)	1000W
Height	59
Width	41 + 7cm for the connector of the suction unit
Depth	46
Net weight	26Kg
Sound pressure level	<70 dB(A)
Air pressure	6*10 ⁻⁵ Pa (6bar)
Air connection	Hose Ø 8x6mm

PURPOSE OF THE MACHINE

SABLOMATIC is an electronic sandblasting unit equipped with *microprocessor* supervision system, and intended for the sandblasting of the dentures. Its function is to remove the investment from the dentures or prepare the metal surface for the next treatments.

Any use other than above mentioned has to be considered as an improper use, which relieves the manufacturer from any responsibility for damages of any kind whatever, furthermore involving the user to forfeit with any guarantee right of the device.

PRECAUTIONS

- Make sure the electric system is equipped with ground safety cut-out and protective earthing.
- The machine must be used with a suitable suction unit
- The machine must be used by properly trained adult persons.
- Avoid installing the machine close to a steam generator.
- During any displacement or transport, keep the machine upright (not horizontal). The machine must always stand on its feet.

UNPACKING

The machine is delivered in a cardboard box laid on a wooden board. To remove the packaging, perform the following steps:

- Cut off the straps.
- Cut the adhesive tape and open the upper part of the cardboard box.
- Take out the machine.
- Remove the board and place the machine on the floor.

LOCATION

- The machine must be placed in a dry place, without any boilers or furnaces for flasks, in particular the gas ones especially if their draught is not quite in order.
- Install the appliance on a flat surface suitable to sustain its weight

POWER SUPPLY

- Connect the power cord to the machine (8, fig.1), then plug the device into a suitable socket, having voltage and power rating corresponding to the rated output of the device, considering also the suction unit, and fitted with ground.

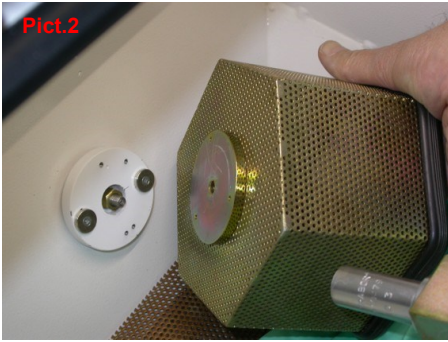
Grounding is mandatory by the operation of Law.

The installation has to be carried out by a skilled installer, qualified to inspect the above mentioned provision is fulfilled.

The manufacturer declines all responsibility for any injury to people or damages to things possibly arising from the non-compliance with the above mentioned instructions.

START UP

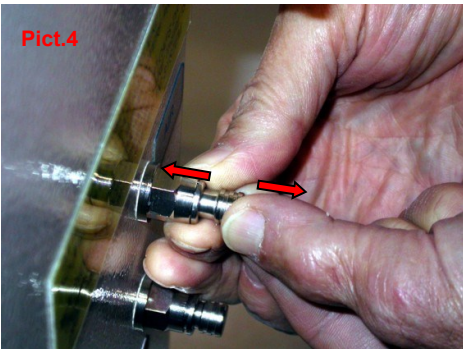
Basket installation.



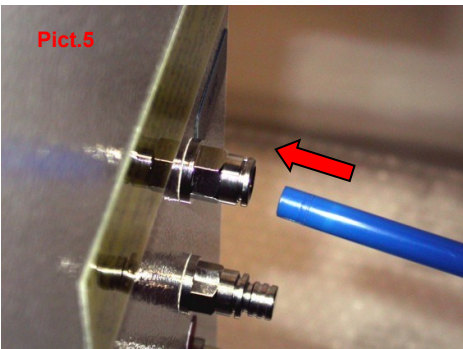
The machine is supplied with the basket packed apart. To install the basket (18, fig.1), open the lid and insert the pin, marked with "a" in the above picture, in the hole placed on the backside of the basket and marked with "b". The basket will be fixed by the magnets "c" mounted on the support.

Connection of the compressed air

- Remove the plug inserted in the air connector (2, fig.1) pushing the collar of the connector and pulling out the plug.



- Insert in the connector the hose of the compressed air (See the technical specifications).



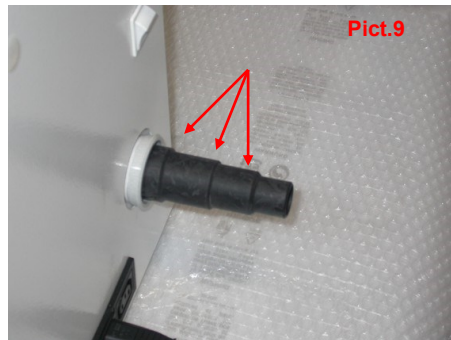
- If the air of the compressor is not dry, a dehumidifier can be supplied on request. See the chapter "accessories" for its installation

Connection of the suction unit

Sablomatic is supplied with a connection for the suction unit (6, fig.1). If a Manfredi suction unit is used connect its hose like shown in the following pictures.



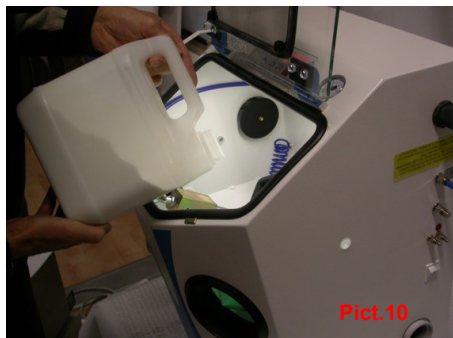
If another type of suction unit is used a special adapter is supplied. Install it like shown in the below pictures



Cut the adapter in such a way the diameter matches the diameter of hose of the suction unit

How to Charge the sand

To charge the sand pour about it directly inside the sandblasting chamber. The maximum capacity of the sand tank is about 8 Kg

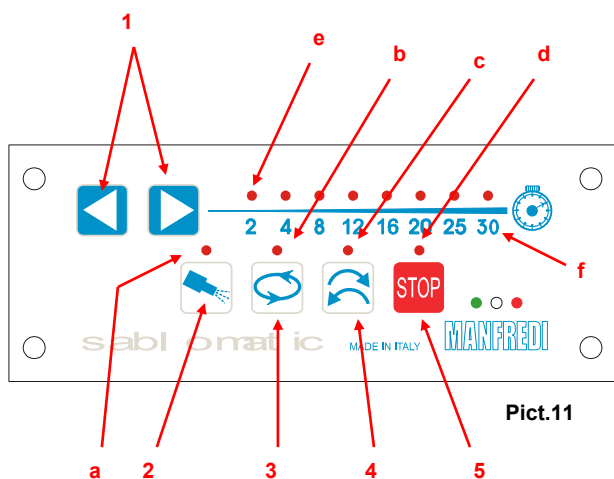


Pict.10

OPERATING INSTRUCTIONS

Please find below a detailed explanation of how to use the machine correctly. Afterwards, the standard working procedure is described, with a list of the steps that have to be carried out in succession.

Reading of the control panel



Pict.11

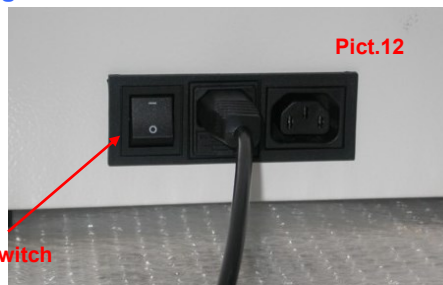
Keys

- Increase/decrease keys** : increase/decrease the sandblasting time
- Manual sandblasting key** : Starts sandblasting. The basket does not rotate.
- Automatic sandblasting key** : Starts sandblasting and the rotation of the basket
- Continuous/alternate basket rotation key**: change the rotation of the motor from continuous to alternate or vice versa.
- Stop key**: stops all the process, both sandblasting or basket rotation

Indicators

- Manual sandblasting led**: it is lit when manual sandblasting is selected
- Automatic sandblasting led**: it is lit when automatic sandblasting is selected
- Alternate basket rotation led**: it is lit when the alternate rotation of the basket is selected
- Stop led**: it is lit when the sandblaster is in idle condition
- Led bar**: Shows the selected time and, during the automatic cycle, the time missing to the end of the process
- Time scale**: Shows in minutes, the automatic sandblasting time

Switching on



Pict.12

Main switch

To switch on Sablomatic set the main switch to "I" : the working chamber will light up. All the leds of the keyboard will light up for five seconds. After this time, if the lid is closed, the manual sandblasting led and the automatic sandblasting led will blink.

The stop led and some led of the led bar will be lit
The suction unit will work for some seconds and then will stop automatically to allow the checking of its efficiency.

Switching off

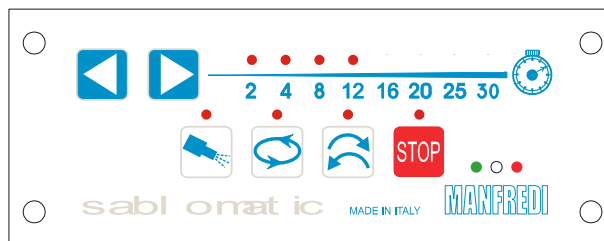
- To switch off Sablomatic set the man switch to "O" :

Setting the sandblasting time

The possible sandblasting times are indicated on the time scale (f, pict.11)

To select the wished time press the keys ► ◀ respectively to increase or decrease the time.

The selected time will be shown by the leds of the led bar: if, i.e., the leds from 2 to 12 will be lit like in the below picture, the sandblasting time will be 12 minutes



Pict.13

Note: The sandblasting time is used only in the automatic sandblasting

Selecting the type of movement of the basket

The basket can rotate always in the same direction or the rotation sense can change periodically after each 30 seconds. That means that the basket first rotates in one direction then, after 30 seconds, in the opposite one.

To switch one type of rotation to the other press the "Continuous/alternate basket rotation key" (4, pict.11). The alternate rotation is active when the relevant led is lit.

Manual sandblasting

To start the sandblasting without the rotation of the basket press the manual sandblasting key. The relevant led will be lit continuously.

The key is active only when the relevant led is blinking. When the led is off, i.e., when the lid is open, the key is not active. The process will go on till the Stop button (5, pict.11) will be pressed.

Automatic sandblasting

To start the automatic sandblasting press the "Automatic sandblasting key" (3, pict.11). The relevant led will be lit continuously, the basket will start to rotate.

The key is active only when the relevant led is blinking. When the led is off, i.e., when the lid is open, the key is not active. The process will stop when the time selected on the led bar will be elapsed. A blinking led on the led bar will show the missing

time to the end of the process. Three short beep will be emitted at the end of sandblasting.
The process can be stopped also by means of the Stop Key.

Stop of the sandblasting operations

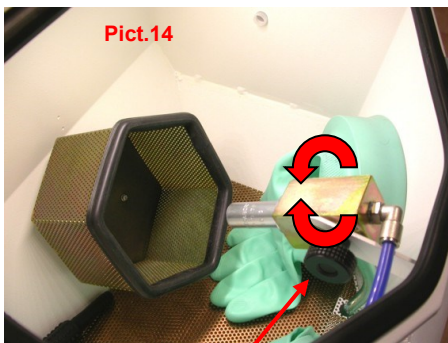
To stop the manual or automatic sandblasting press the key "STOP (5, pict.9). The suction unit will work for some seconds after the STOP key is pressed to remove completely the dust from the chamber.

Opening of the lid

The lid is kept closed by two magnets. To open it pull the handle (11, pict.1) upwards.
For safety reason when the lid is opened the sandblasting and the basket rotation will stop. The suction will stop after some seconds remove all the dust still present

Adjusting of the nozzle position

- Loosen the nozzle adjusting knob
- The nozzle can be moved forward and backward or rotated . Position it according to the work to be executed.
- Tighten the nozzle adjusting knob



Nozzle adjusting knob

Setting of the pressure value

The value of the sandblasting pressure can be read on the pressure gauge (16, fig.1)
To adjust the pressure operate on the knob (1, fig.1). Pull out the knob and turn it clockwise to increase the pressure, turn the knob counterclockwise to decrease the pressure. When the adjustment is finished push the knob to its working position.

WORKING PROCEDURES

In Manual mode

- Switch on the machine
- Open the lid and put the dentures inside the chamber
- close the lid. If the lid is open, for safety reason, the sandblasting can not start. In this condition the Manual sandblasting led and the Automatic sandblasting led (a and b, pict.9) are off.
- If necessary adjust the position of the nozzle.
- With the Manual sandblasting led (a, pict.11) blinking, press the Manual sandblasting key (2, pict.11). The jet of compressed air and sand will be emitted and the suction unit will start to work.
- Put the hands into the gloves and put the denture under the jet.
- At the end of all the operations press the STOP key.
- Open the lid and take out the dentures.
- Switch off the machine

In Automatic mode

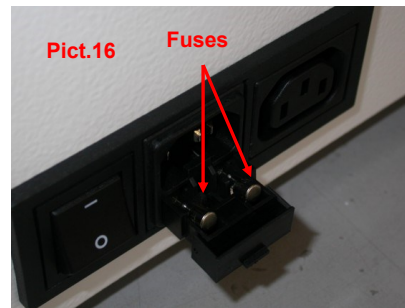
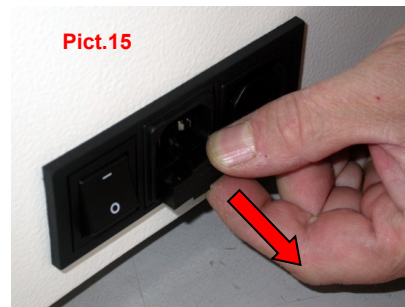
- Switch on the machine
- Open the lid and put the dentures inside the basket
- close the lid. If the lid is open, for safety reason, the sandblasting can not start. In this condition the Manual

sandblasting led and the Automatic sandblasting led (a and b, pict.11) are off.

- Set the sandblasting time by means of the ►◀ key
- If necessary adjust the position of the nozzle.
- With the Automatic sandblasting led (b, pict.11) blinking, press the Automatic sandblasting key (3, pict.11). The jet of compressed air and sand will be emitted the basket will start to rotate and the suction unit will start to work.
- When the selected time is elapsed three short beep will be emitted ,the sandblasting jet and the rotation of the basket will stop.
- Open the lid and take out the dentures.
- Switch off the machine

FAULTS

- **The machine cannot be switched on.**
 1. Make sure the plug is in and the socket is live. If the trouble persists, check the fuses.**Warning:** before opening the drawing of the fuses switch off and unplug the machine. **Risk of electric shock**

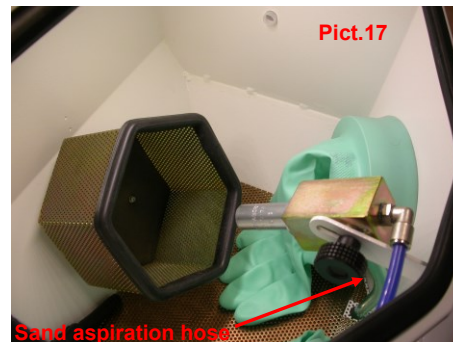


- **The manual or the automatic sandblasting do not work. The manual and the automatic sandblasting leds are off**

The lid is open. Close the lid

The jet of sand and compressed air is not continuous.

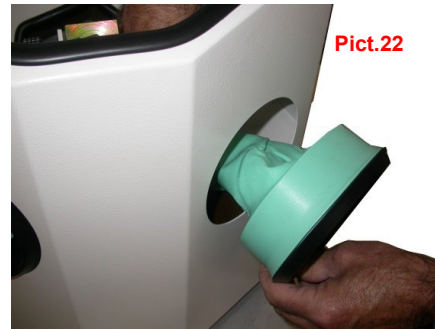
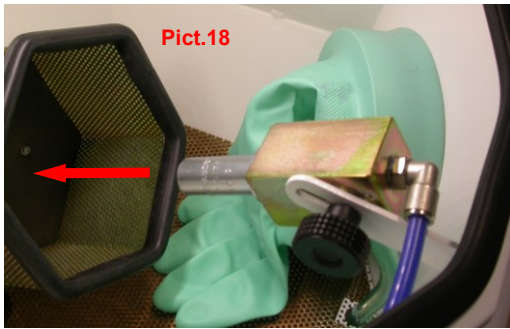
Check that the sand aspiration hose is well inserted inside the sand tank and covered with sand



MAINTENANCE

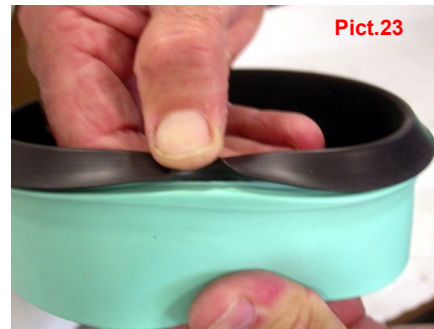
How to replace the nozzle

To remove the nozzle simply pull it out from its seat. In case it is hard to extract turn it a little bit in one direction and in the opposite one.



Pict.22

Insert the edge of the glove in the rubber hand passage like shown in the below pict. .23



Pict.23

How to remove the bottom grid of the chamber

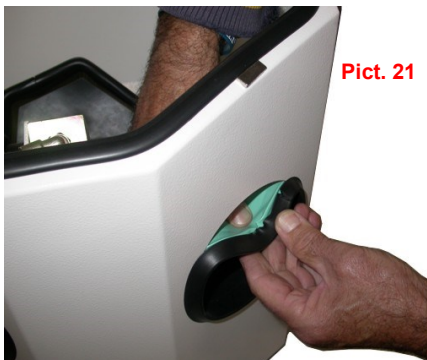
In case it is necessary to remove the grid of the bottom grid of the chamber pull it upwards keeping it by its special screws.



Pict. 20

How to replace the gloves

Remove the the rubber hand passage like shown in the below picture 21.and 22



Pict. 21

Cleaning of the intake manifold

- Disconnect the aspiration hose
- aspirate the dust eventually present in the cavity behind the connector by means of a vacuum cleaner



ACCESSORIES

On Sablomatic can be installed some accessories supplied on request.

deumidifier



Pict.24

Connect one side of the deumidifier to the inlet of the compressed air with a 8x6mm hose. Connect the other side to the compressor with a hose of the same diameter.

Additional sand tank

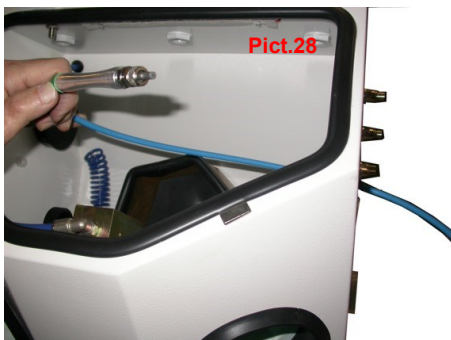
Remove the plug on the side of the machine like shown in the pictures 25 and 26



Put the supplied rubber protective ring like shown in picture 27



Insert the hose of the handpiece through the hole



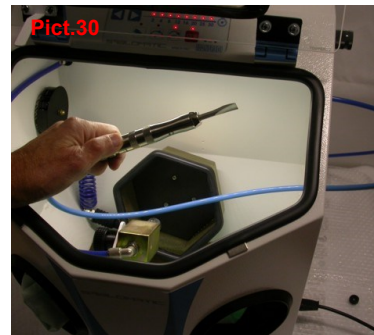
Insert the end of the hose in the connector placed on the tank



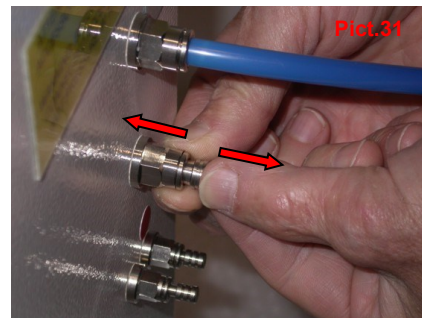
When the additional tank is used operate the switch for accessories.(5, pict.1). in this way the jet from the standard nozzle of the machine will be stopped. Switch on the machine and press the manual sandblasting key (2, pict.11) so that the suction unit can work.

Pneumatic chisel

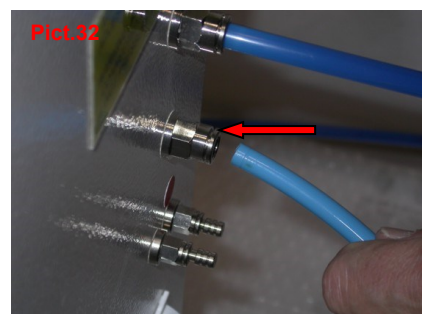
Remove the plug like shown in the previous pictures .25 and 26 and place the rubber protective ring like shown in pict 27



Be sure there is no pressure in the pneumatic circuit then remove the plug (3, pict.1) pushing the collar of the connector and pulling out the plug.



Insert the end of the hose in the connector indicated in the following picture .32

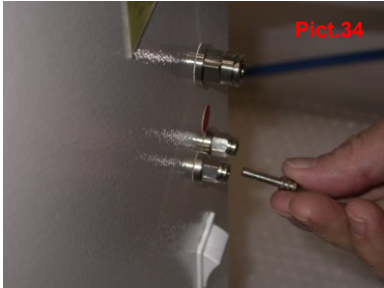


When the chisel is used operate the switch for accessories.(5, pict.1). in this way the jet from the standard nozzle of the

machine will be stopped. Switch on the machine and press the manual sandblasting key (2, pict.11) so that the suction unit can work.

External sandblasting control pedal

Be sure there is no pressure in the pneumatic circuit then remove the two plugs illustrated in the following picture 33. and 34. pushing their collar and pulling out the plug



Insert the ends of the two hoses of the pedal paying attention to put the red one in the connector marked with the red circle



When the external control pedal is used, operate the switch for accessories.(5, pict.1). in this way the jet from the standard nozzle of the machine will be stopped. Switch on the machine and press the manual sandblasting key (2, pict.11) so that the suction unit can work.

GUARANTEE

Sablomatic is guaranteed for 12 months.

The right to our guarantee is lost in case of improper activity, tampering or use of non-original spare parts.

The failure to send back the Warranty Certificate within 15 days after the purchase date involves the immediate forfeiture of your right to our guarantee.

Our guarantee does not cover the labour costs or travelling expenses, which are always and anyhow to the Purchaser's account.