




Basic

Original

Operating Instructions




We are pleased that you decided to buy a highly developed piece of equipment from SCHICK and would like to wish you every success when working with your new  **Basic** .

We wrote these operating instructions to enable you to get accustomed to your new piece of equipment and to provide you with the correct operating and maintenance instructions.


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1. Safety Instructions



- 1.1 Ascertain that your mains supply coincides with the data on the rating plate.
- 1.2 -  **Basic** units are not suitable for the following applications:
- in areas where there is a risk of explosion
 - for medical applications
 - for working on moist materials
- 1.3 Ensure that all regulatory requirements are observed during use
- always wear protective glasses
 - provide enough light at the working place
 - use dust suction
- 1.4 Under no circumstances should the motor handpiece be cleaned with compressed air.
- 1.5 Before putting the handpiece down, always insert a rotary instrument or the pin, supplied with the unit, into chuck.




Caution!

- When using rotary instruments, do not exceed the maximum speeds laid down by their manufacturer.
- When operation with left-hand rotation, the collet may loosen when there is a high load.
- Repairs and other technical procedures must only be carried out by suitable qualified personnel, authorized by SCHICK.
- SCHICK do not guarantee the  **Basic** unit should it not have been used in accordance with the operating instructions.

2. Range of applications

The  **Basic** unit is designed for universal use in dental laboratories when trimming crowns and bridges, respectively acrylic and light chrome cobalt dentures. With its speed range from 1.500 - 40.000 rpm the SCHICK  **Basic** unit allows to work all dental materials.

The motorhandpiece is ergonomical, small shaped and runs smoothly, thus eliminating user-fatigue and making it economical to use over long periods. The progressive processor controller constantly monitors the unit for overloading. A second thermal fuse, which is independent of the computer, provides further protection. Thus the  **Basic** unit offers a maximum of safety.

Conditions of environment:

- interior 5° - 40° C.
- up to 2,000 meter over sea level

Categorie of overvoltage: II

Grade of pollution: 2



WEEE-Reg.-Nr. DE 78620387

3. Summary - List of contents

(1)



(2)



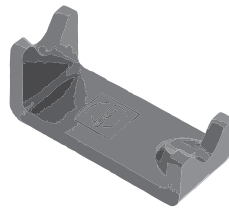
(3)



(4)



(5)



(6)



(7) (8)



kneeverision:

<input checked="" type="checkbox"/> Basic SK complete		art.no.	9405
<input checked="" type="checkbox"/> Basic knee controller	(1)	9416	
motorhandpiece with cable	(4)	9400	
handpiece rack		9127	
with two keys for changing the chuck	(5)		
mains cable	(6)	9415	
suspension strip	(7)	9103	
screws - two pieces-	(8)	3170	

foot control:

<input checked="" type="checkbox"/> Basic SF complete		art.no.:	9408
<input checked="" type="checkbox"/> Basic foot controller	(2)	9417	
motorhandpiece with cable	(4)	9400	
handpiece rack	(5)	9127	
with two keys for changing the chuck			
mains cable	(6)	9415	

table top version:

<input checked="" type="checkbox"/> Basic ST complete		art.no.:	9413
<input checked="" type="checkbox"/> Basic table top controller	(3)	9418	
motorhandpiece with cable	(4)	9400	
handpiece rack	(5)	9127	
with two keys for changing the chuck			
mains cable	(6)	9415	

4. Equipment/Optionals



foot pedal switch (on/off) for connection to the table top model art.no. 6370/2



dynamic foot control for connection to the table top model art.no. 9440

chuck Ø 2,35mm	6642
chuck key	4115
counterstay wrench	6223
motorcable complete	9225



riveting hammer art.no. 1850



twin riveting hammer art.no. 1860

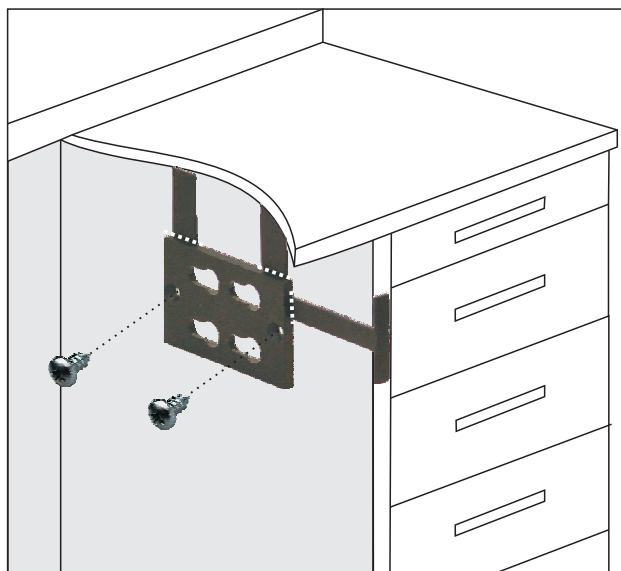


riveting hammer with chisel art.no. 1850/1

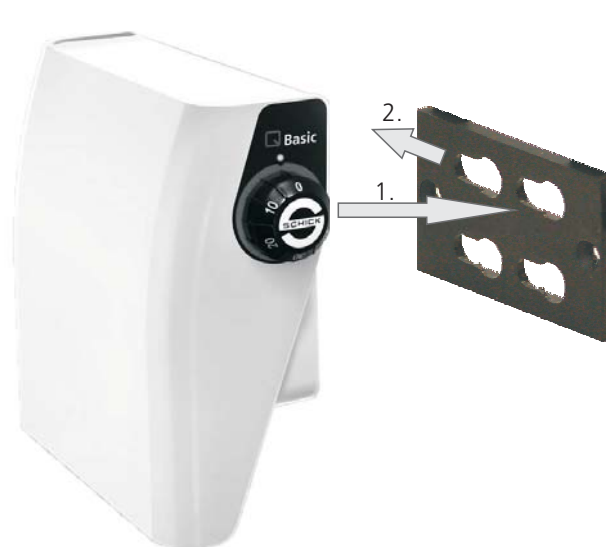
5. Initial start-up and installation

5.1 Installation of the suspension strip for knee control unit

1.



2.

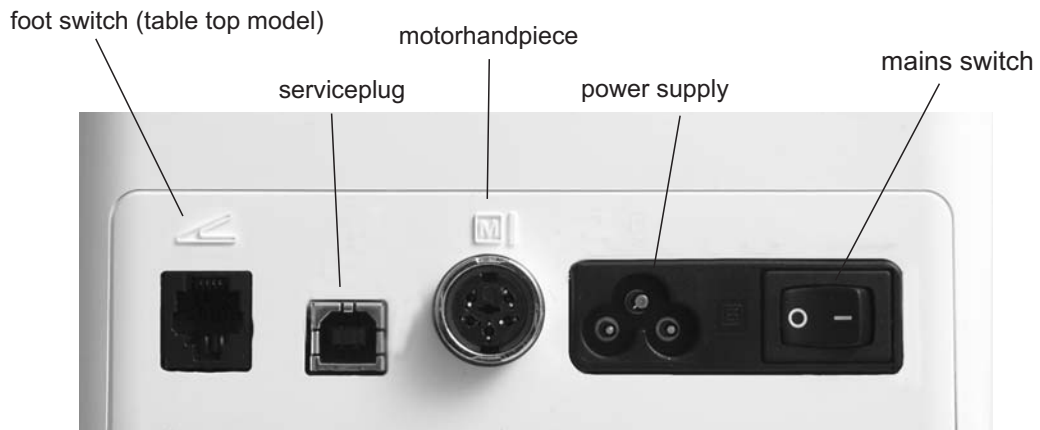


1. The suspension strip (7) is supplied with a template which acts as an aid for correct positioning of the **Basic** knee control unit. To do this, the mounting bracket is positioned on the work bench as shown in figure 1, and secured using the screws supplied (8). After installation, the template can simply be detached from the bracket.

2. For installation of the **Basic** knee control unit, the cavity at the rear of the unit is placed on the bracket and pushed back until it clicks into place (Fig.2).

5.2 Initial start up and installation

Connect the motorhandpiece to the ‚motorhandpiece‘ socket.
Plug the power supply to the power supply socket on the control unit. .
To switch on the device, the mains switch must be set to ‚ON‘



5.3 Switching on/off:

The **Basic** control unit is equipped with a mains switch to switch on / off the control mechanism.

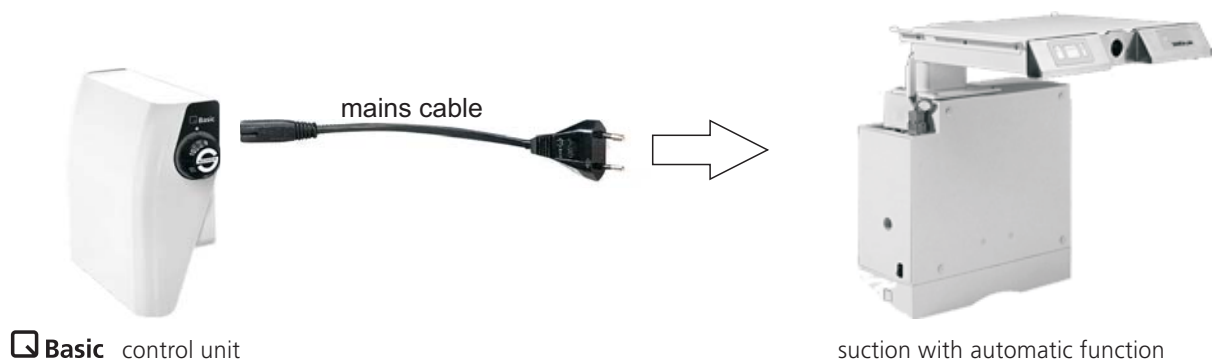


Basically, first attach the handpiece before connecting the mains cable and switching the control mechanism on.

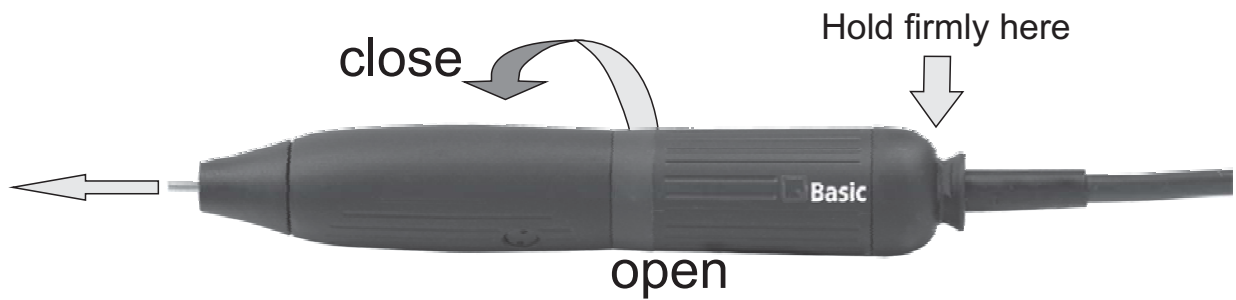
5.4 Connection of the **Basic** for automatic switching on of a workplace suction

In order to operate the **Basic** together with a workplace suction system with automatic function, the mains cable of the **Basic** must be connected to the appropriate connector socket on the workplace suction device.

Possibly some corrections of the input sensitivity of the suction may be required. Suctions of type ‚Freuding‘ must be set to "Schick CN".



6. Tool change on motorhandpiece

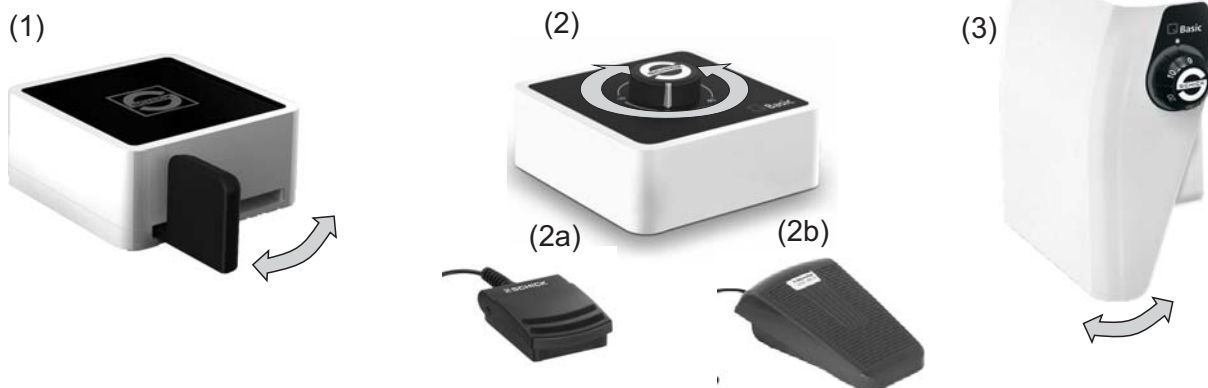


By turning the gripsleeve on the hand piece, the chuck can be opened or closed.

- ⚠ Only carry out a tool change when the motor is switched off! To optimise the precision and durability of the chuck, the tool or the factory-supplied protective pin must always be in a fixed position, even when not in use.
- ⚠ Always insert tools as far as possible into the chuck in order to achieve maximum holding power!

7. Operation

There is continuously variable speed control of the handpiece up to the maximum preset motor speed using the respective control unit (see diagram below).



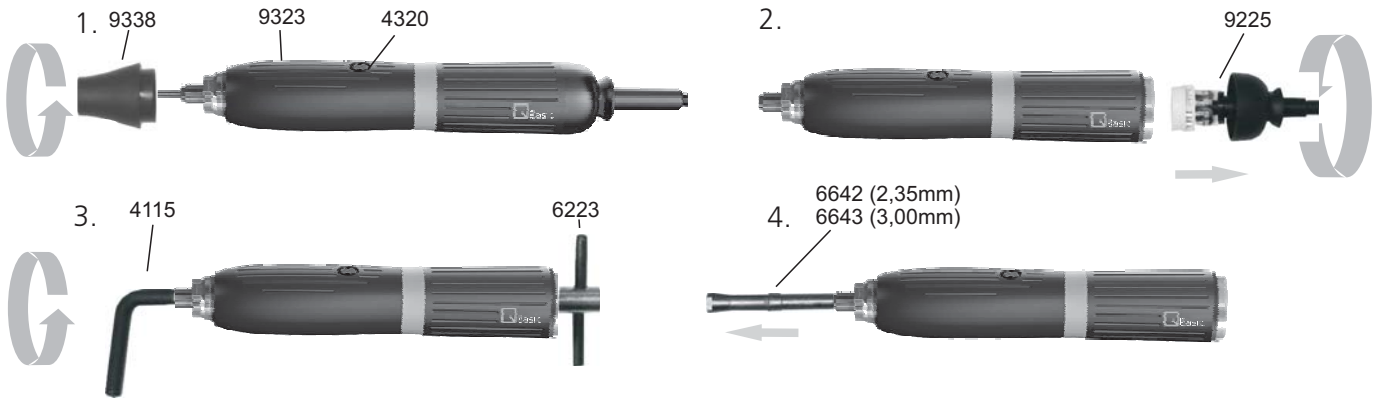
- 1) With the foot controller continuously variable speed control of the handpiece up to the maximum speed of 40.000 1/min can be regulated.
- 2) The table top control unit is equipped with a knob with which the connected motor handpiece can infinitely adjusted to the maximum speed of 40,000 1 / min. If the optional foot switch (2a) art. no.: 6370/2 is used, the desired speed is selected on the rotary knob and started with the foot-switch. If the optional dynamic foot control (2b) art. no. : 9440 is used, the speed is controlled infinitely variable by this up to the preset speed.
- 3) The knee controller is equipped with an additional potentiometer for setting a speed limit. Set the potentiometer to the desired maximum speed. By using the knee lever the speed can now be set variously up to the preset speed.

- ⚠ Please always observe the maximum permitted speed for your tools!!

8. Cleaning and maintenance / Removing the chuck




The **Basic** motor handpiece is designed for maximum durability and therefore, the chuck and the tip should be removed and cleaned from time to time.

8.1 Removal of chuck on the **Basic** handpiece



1. Remove tool and unscrew tip of handpiece
2. Remove cap from motor and pull out the plug
3. Place the chuck key (Art. no. 4115) on the open chuck, use a number 6223 counterstay wrench to hold the motor end of the spindle
4. Remove the chuck (art.no. 6642) from the shaft

After thoroughly cleaning the chuck, before replacing, it should be slightly greased on the outer surface (e.g., with grease art.no. 51/1). Only fasten the chuck lightly when reinstalling! The chuck will fix itself firmly as part of its normal operation.

-  To optimise the precision and durability of the chuck, a tool or the factory supplied protective pin must always be fixed, even when not in use.
-  Never clean the handpiece with compressed air!
-  The required chuck keys are located in the underside of the handpiece holder.

8.2. Removing/changing the motor cable (see picture above)

1. Unscrew the cap (2) from the motor
2. Loosen the cable by pulling out the plug-in seal (1)

9. Errors

If the handpiece is overloaded or blocked, the control unit switches off automatically to prevent further damage. Make sure the tool can rotate freely in the handpiece and after releasing foot lever or knee lever back to neutral position the unit can continue operation.

If an error cannot be removed following the above description, please contact an authorised service partner or Schick directly.

10. Technical data

dimensions handpiece: 158 mm
length: 30 mm
diameter max.: 240 g
weight :

dimensions control unit:

	knee version	foot version	table top version
width:	95 mm	155 mm	155 mm
height:	203 mm	75 mm	75 mm
depth:	210 mm	220 mm	155 mm
weight:	1.100 g	1.900 g	670 g

operating voltage: AC 100 - 240 Volts
Frequency: 50/60 Hz
output: 80 Watt

speed range: 1.500 - 40.000 min
torque: max: 6,7 Ncm
protection class: II

The oscillation total value during operation is below $2,5 \text{ m/s}^2$ (EN 28662)².

11. Declaration of Conformity

We, the SCHICK GmbH
Lehenkreuzweg 12
D-88433 Schemmerhofen

declare herewith, that the products

- Basic** - consisting of
- Basic** - handpiece 9400 in combination with
- Basic** - control unit 9416, 9417 or 9418



are in conformity with the following provisions of Directive:

- 2001/95/EG (general product safety)
- 2006/42/EG (machinery directive)
- 2006/95/EG (low voltage directive)
- 2004/108/EG (EMV directive)

Name and adress of
person in charge:

Wolfgang Schick
Lehenkreuzweg 12
88433 Schemmerhofen

Schemmerhofen, March 2015

W. Schick
Geschäftsführer

Subject to technical modifications

This unit complies with the current VDE (German association of electrical technicians) regulations concerning safety and suppression.

These operating instructions should be readily accessible and are best kept close to the unit itself.

We would like to take this opportunity to advise you that a proper repair service and suitable qualified personnel are required for such highly developed technical equipment. SCHICK guarantees to carry out perfect repairs using original spare parts.

manufacturer:



Schick GmbH
Lehenkreuzweg 12
D-88433 Schemmerhofen
Telefon +49 7356 9500-0
Telefax +49 7356 9500-95
E-Mail info@schick-dental.de
Internet www.schick-dental.de