

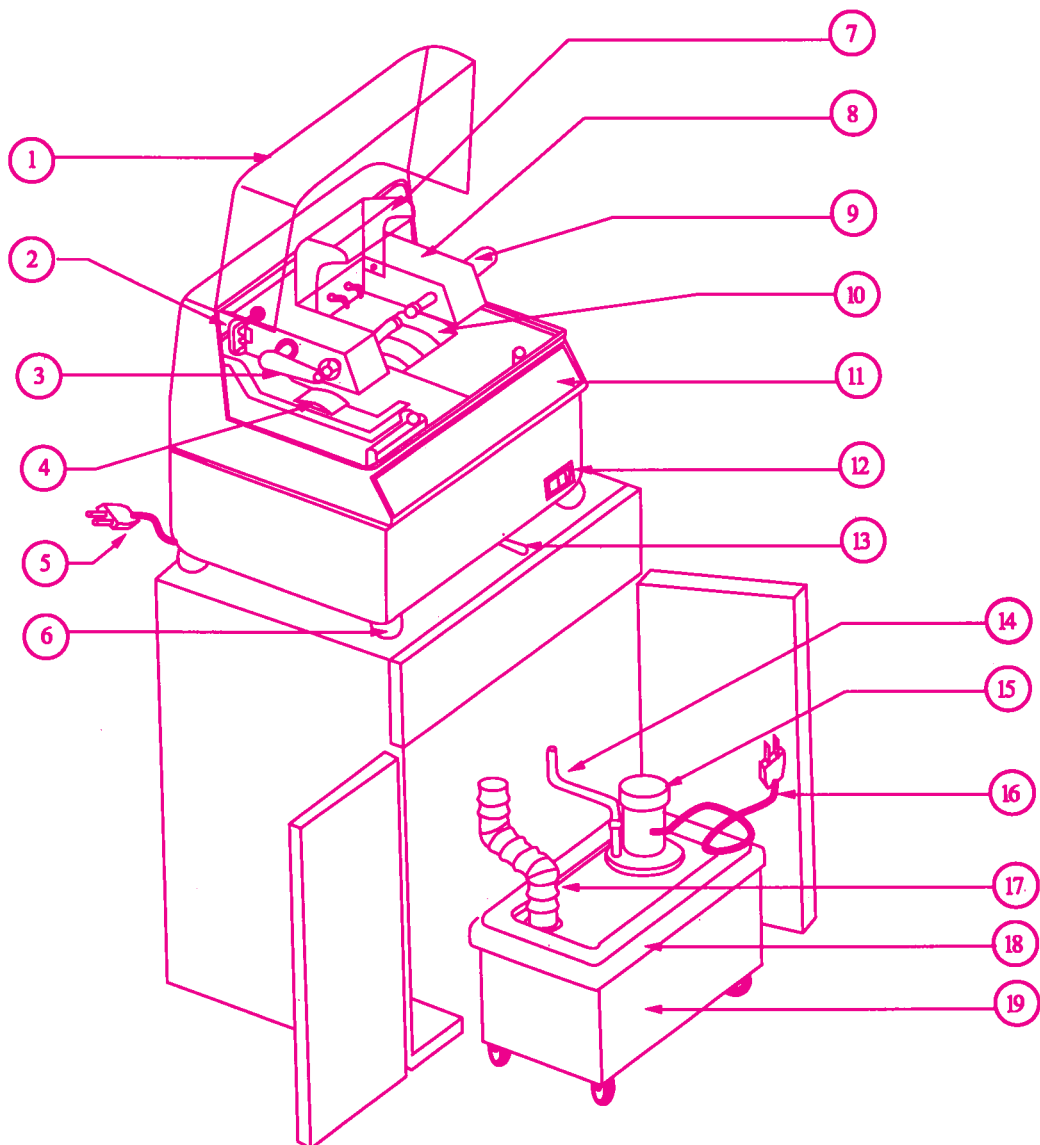


SERIES OF AUTO LENS EDGER
OPERATION MANUAL

Contents

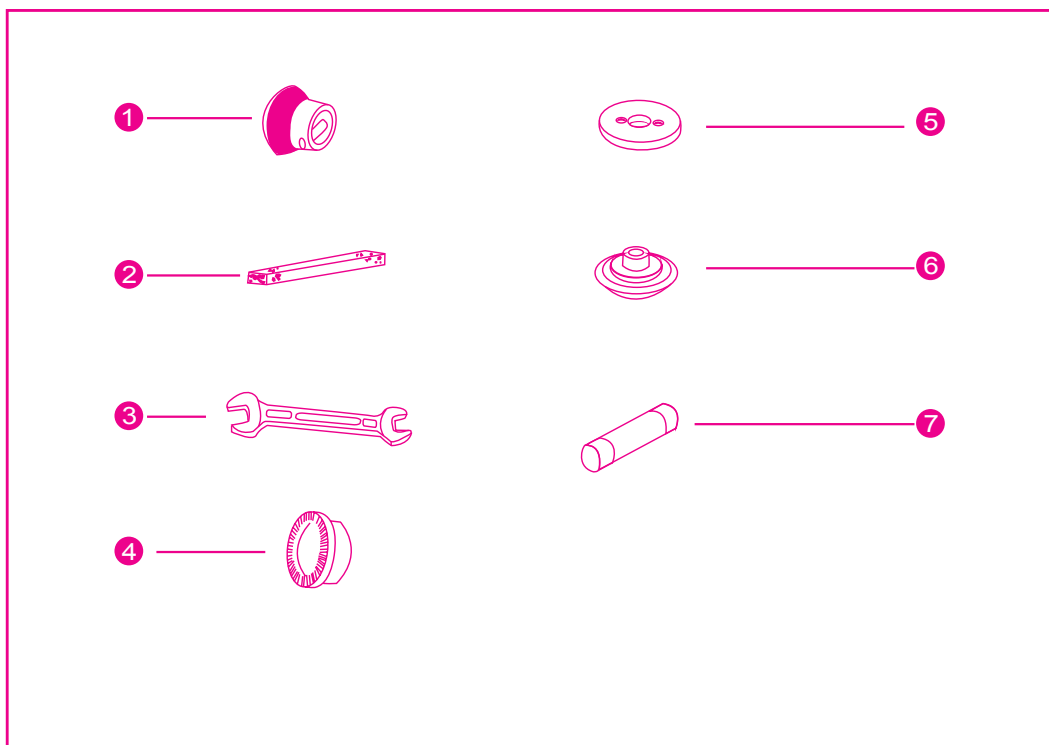
NOMENCLATURE.....	2
ACCESSORIES AND TOOLS.....	4
DIA WHEELS.....	5
INSTALLATION.....	6
CHECKING THE LEVEL OF CARRIAGE.....	7
ASSEMBLING THE TANK AND CONNECTING THE PIPES.....	8
SWITCH PANEL	9
OPERATION PROCEDURES.....	10
CORRECTING LENS SETTING, SIZE AND DIA WHEEL POSITION.....	14
REGISTRATION OF LENS SIZE.....	16
MAINTENANCE AND A/S.....	17
USER MANUAL OF MODEL FORCED MILL (OPTION).....	19

1 NOMENCLATURE



- [1] Soundproof cover
- [2] Carriage weight-changing lever
- [3] Template retainer lever
- [4] Carriage backlash sensor
- [5] Power cord
- [6] Adjustable foot
- [7] waterproof cover
- [8] Carriage
- [9] Lens clamp handle
- [10] Diamond wheel
- [11] Operation panel
- [12] On/Off switch
- [13] water supply cock lever
- [14] Water supply pipe
- [15] Pump
- [16] Pump power cord
- [17] Drain pipe
- [18] Cover
- [19] Tank

2 ASSESSORIES AND TOOLS



1. Suction cup

2. Dressing stick

3. Hex wrench

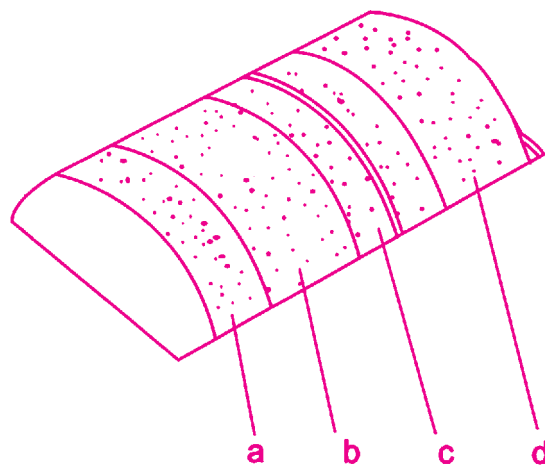
4. Tape cup

5. Standard template

6. Standard gauge

7. Fuse

3 DIA WHEELS



a: Roughing wheel (polishing): used for roughing plastic lenses.

b: Roughing wheel (metal bonded): used for roughing glass.

c: Beveling wheel: used for normal and hold edging.

d: CR flat wheel: used for flat edging.

4 INSTALLATION

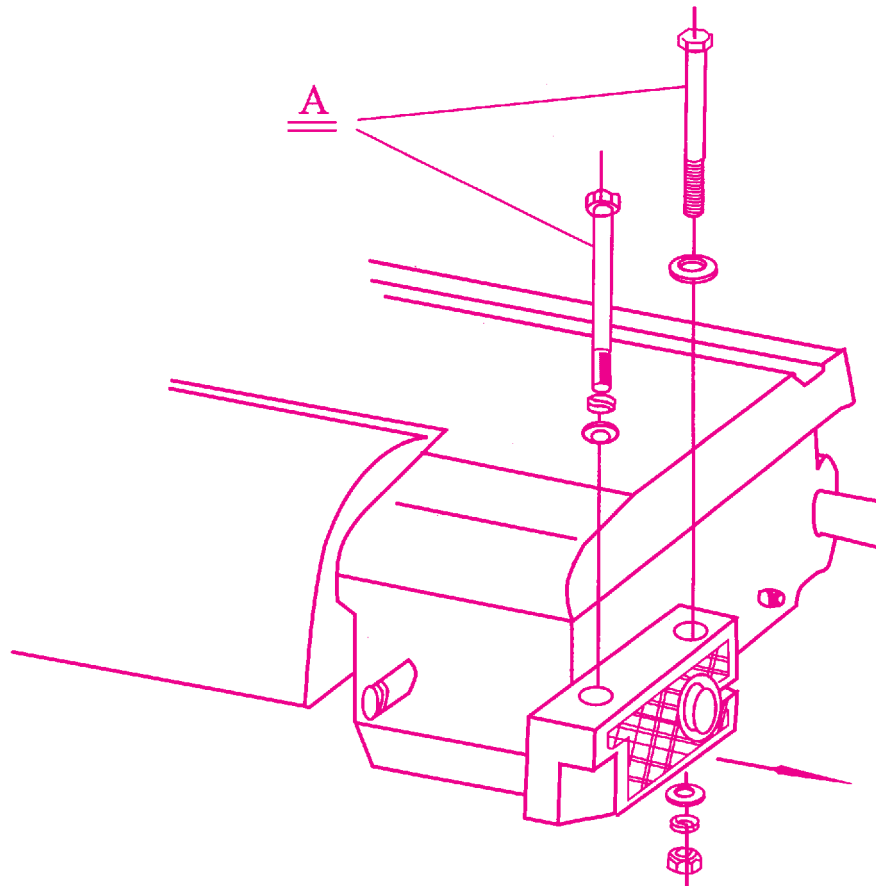
(1-1) Confirm that table is firm and place the instrument on it. Use template or board (table adjusters) if table is not firm.

(1-2) Fix the machine on the table.

(1-3) Open the soundproof cover and remove two screws (A) and retainer with a screwdriver.

* Take two screws (A) and retainer into a drawer.

(1-4) Plug power cord into outlet and turn power switch on.



5 CHECKING THE LEVEL OF CARRIAGE

(1) Fix standard template to () through pins and lower template retainer lever

(2) Fix carriage backlashing lever () to the second stage.

(3) Move manually carriage so that it comes just over diamond wheel.

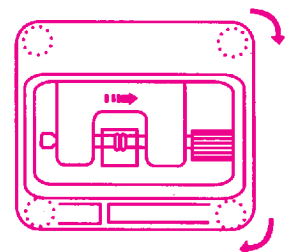
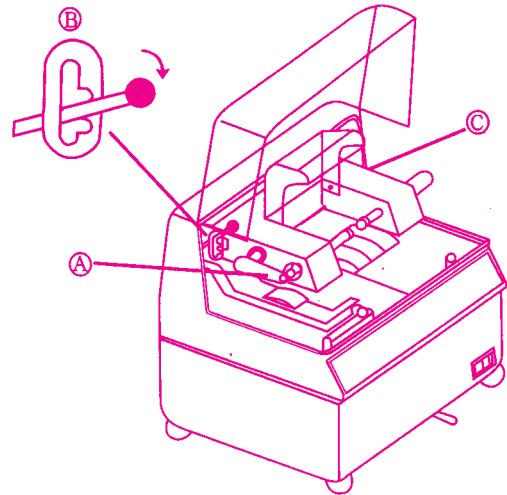
(4) With this, carriage is level if it does not move either left or right.

(5) if carriage moves right, turn the right adjustable foot clockwise.

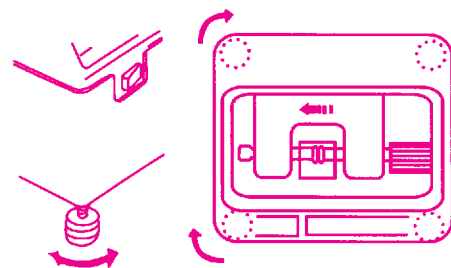
(See Fig.1)

(6) if carriage moves left, turn the left adjustable foot clockwise.

(See Fig.2)



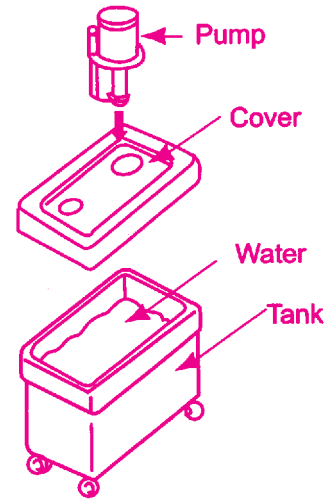
(Fig.1)



(Fig.2)

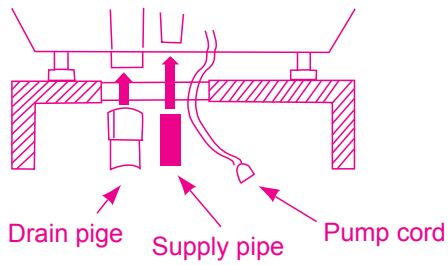
6 ASSEMBLING THE TANK AND CONNECTING THE PIPES

(6-1) Assemble the tank as illustrated
(See Fig.1)



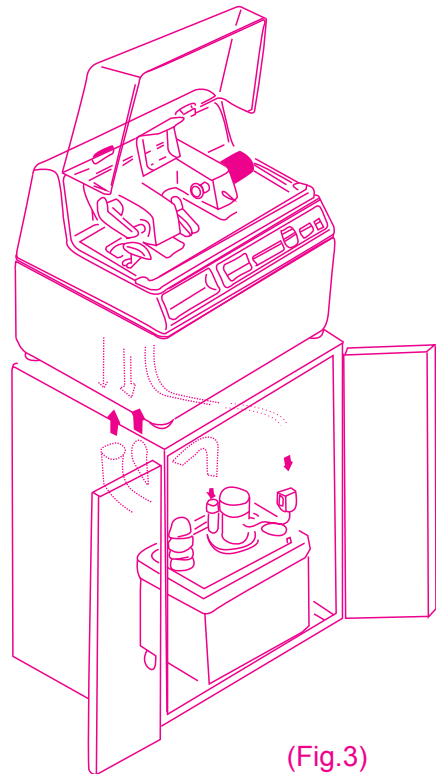
(Fig.1)

(1-2) Connect drain pipe as in Fig.2.



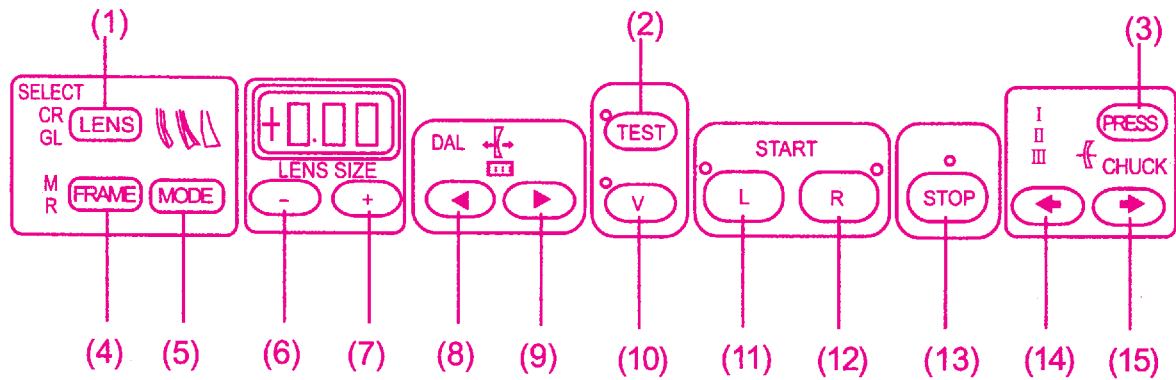
(Fig.2)

(1-3) Connect supply pipe and pump cords
as in Fig.3.



(Fig.3)

7 SWITCH PANEL



- (1) CR, GL Lens selector
- (2) Test switch
- (3) Chuck press selector
- (4) Frame selector
- (5) Beveling and frameless selector
- (6) Minus (-) switch
- (7) Plus (+) switch
- (8) Shift (left) switch
- (9) Shift (right) switch
- (10) Re-edging switch
- (11) Start switch (L): for edging of left lens.
- (12) Start switch (R): for edging of right lens.
- (13) Stop switch
- (14) Lens-clamping switch
- (15) lens-looseing switch

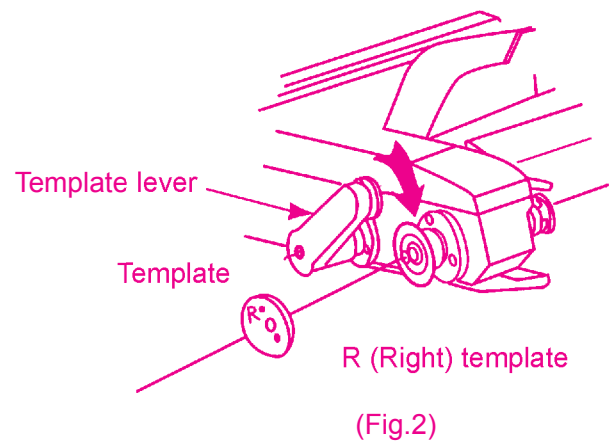
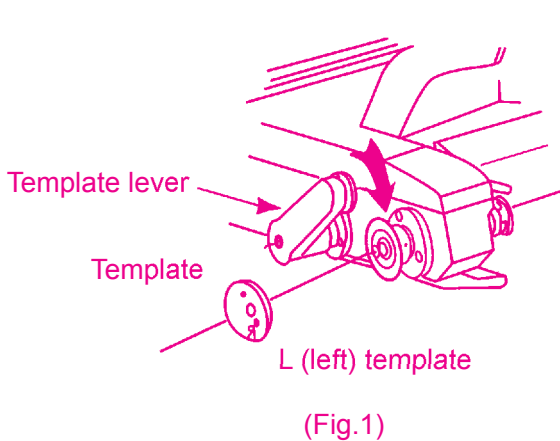
8 OPERATION PROCEDURES

(1) Preparations

- <8-1-1> • Turn **POWER** switch on and open water supply cock.
- <8-1-2> • Press **TEST** switch and check that water is supplied.

(2) Fitting template

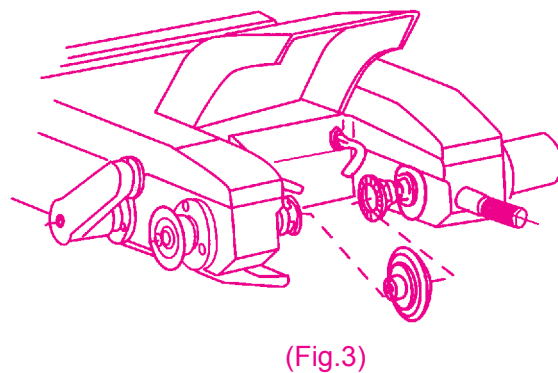
- <8-2-1> • Put a template through pins and lower template retainer lever.
(See Fig.1 and 2)
- <8-2-2> • Put even the left and right templates as in 8-2-1



(3) Fitting lens

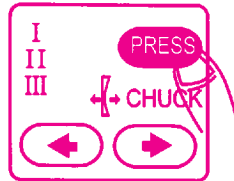
Match the upper point of suction cup with the one of shaft.

(See Fig.3)



(4) Clamping lens

<8-4-1>

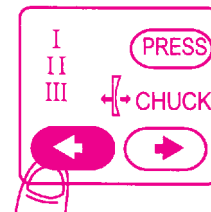


(Fig.4)

- ◆ Select lens clamping with **PRESS** switch.
- See Fig. 4.
- Selecting pressure
 - I (low): Glass high-refractive lens
 - II (medium): Glass,CR lens
 - III (high): CR lens

<8-4-2>

- Lock the lens with chuck switch.
- If pressing it lightly only one time, it is automatically clamped.
- Even in loosening lens, it loosens if pressing the switch lightly. (See Fig.5)



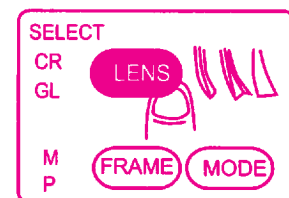
(Fig.5)

(5) Selecting lens

<8-5-1>

- Press lens selector to select **GL** lens or **CR** lens.
 - It is possible to change mode though not pressing **STOP** switch on selecting **GL** again after selecting **CR**.
- 【Note】** It is initially set as **CR** Mode if turning on switch.

(See Fig.6)

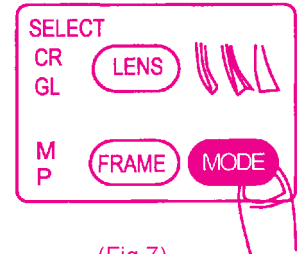


(Fig.6)

(6) Selecting bevel

<8-6-1>

- Whenever pressing MODE switch, bevel and rimless will be repeated.
- On selecting 'rimless', series is processed up to rimless lens polishing.



(Fig.7)

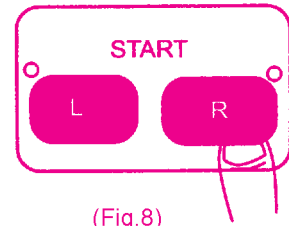
◆ Note ◆

- When not making polish work at the time of rimless lens edging, it goes back to its original position if pressing STOP switch after the first and second edging.

(7) Start

<8-7-1>

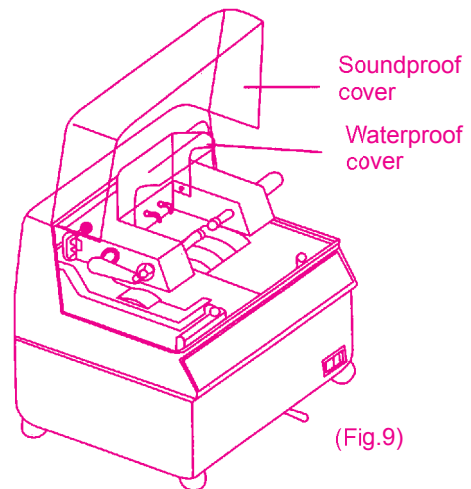
- Press *L* or *R* of START switch, and processing will be started. (See Fig.8)



(Fig.8)

◆ Note ◆

- Make sure to close waterproof cover when starting on lens edging. If not closing it, trouble may be caused.
- Close soundproof cover when noise is intrusive. (See Fig.9)

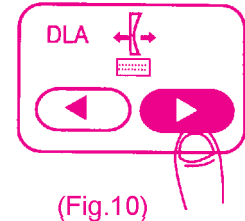


(Fig.9)

(8) Shifting lens position

<8-8-1>

- Press ◀ or ▶ switch of DIA mode to make a shift as desired.
- If using it properly after being well aware of the use of <8-8-1>, dia wheel's life becomes long.(See Fig.10)



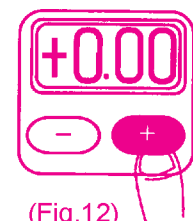
(Fig.10)

(9) Changing lens size

<8-9-1>

Check the size displayed on the panel if it is as desired.

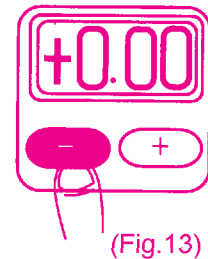
- Use (+) mode when making the lens size larger if its size is smaller after its test edging.(See Fig.12)



(Fig.12)

<8-9-2>

- Use (-) mode when making the lens size smaller if its size is bigger after its test edging.
(See Fig.13)

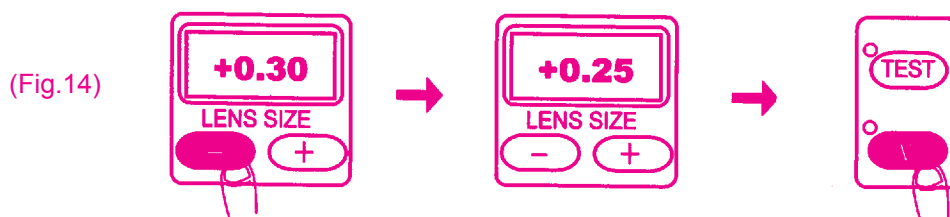


(Fig.13)

- 【Note】**
- Minimum setting unit: 0.05mm
 - Minimum size: -6.00mm
 - Maximum size: +6.00mm

(10) Re-edging

- In case that the lens size is still bigger after edging of **GL** and **CR** lens.
- ① (Fig.14): Use it after resetting lens size with (-) switch.
 - ② (Fig.14): Press (V) switch, and edging will be started as changing its size in the second-edging bevel groove.



(Fig.14)

9 RE-INITIALIZATION OF THE MACHINE (SETTING THE POSITION OF THE LENS TO THE WHEEL)

The following re-settings are necessary,

- When any part of Diamond Wheel is worn;
- When the difference between the actual lens size and the digital number becomes too big;
- When the change of lens position to the Wheel is required.

【Note】 The new settings are carried out under the deletion of the previous setting.

(1) Mounting of the standard pattern and the standard Gauge

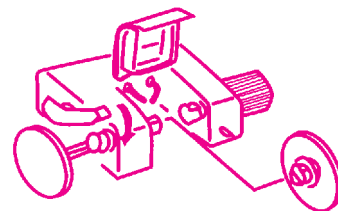
- Switch on the machine.
- Put the standard Gauge into the required position.
- Press GRIP to hold the Gauge firmly
- Put the Standard Pattern into the position
- Switch off the machine.



Pattern

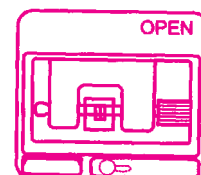
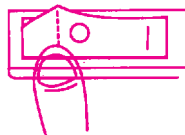


Gauge



(2) Press TEST and hold it, while switching on the machine.

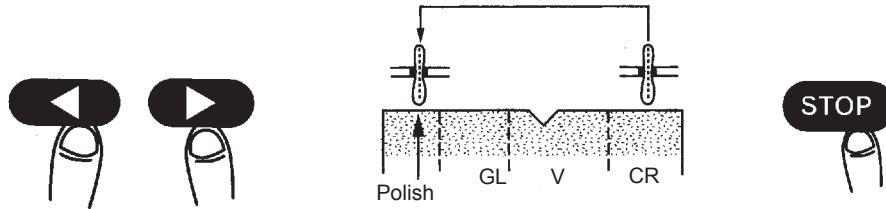
When the buzz sounds, the carrier moves automatically to the position above the CR Wheel.



(3) Press ◀ or ▶ to finely adjust the position of the carrier.

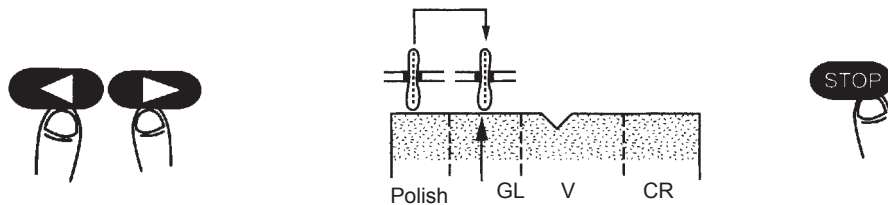
- Press **STOP** to confirm the setting. The carrier moves automatically to the position above the **Polish** Wheel.

(Polish GL V CR)



(4) Press ◀ or ▶ to finely adjust the position of the carrier.

- Press **STOP** to confirm the setting. The carrier moves automatically to the position above the Glass Wheel.

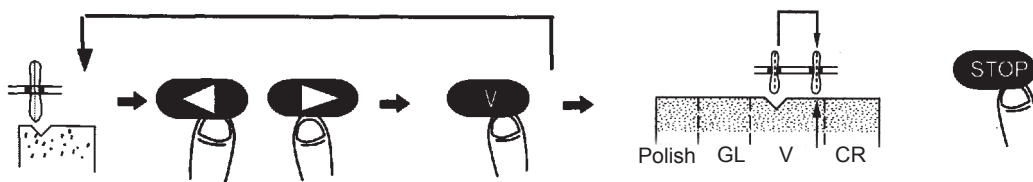


(5) Press ◀ or ▶ to finely adjust the position of the carrier.

- Press **STOP** to confirm the setting. The carrier moves automatically to the position above the **V** Wheel.

(6) Press ◀ or ▶ to finely adjust the position of the carrier.

- Press **V** to land the Gauge to the bottom of the **V** groove. Then the Gauge returns automatically to the position above the **V** Wheel.
- Repeat this adjustment till the Gauge is in alignment with the bottom of the **V** groove.
- Press **STOP** to confirm the setting. The carrier moves automatically to the Fine Grinding Wheel.



(7) Press ◀ or ▶ to finely adjust the position of the carrier.

- Press **STOP** to confirm the setting.

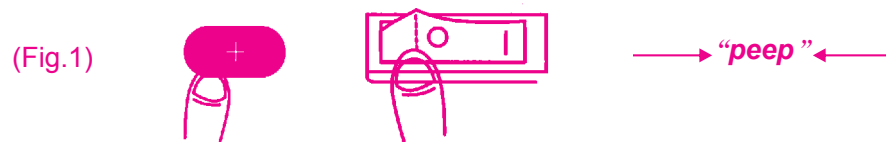
(8) Switch off the machine. All the settings are to be saved and the previous settings are to be deleted automatically.

10 REGISTRATION OF LENS SIZE

(1) Carry out the following procedure when wanting to fix a changed lens size by only ope-time setting

<10-1-1>

- Turn power switch on while pressing (+)switch. Make sure of beeping sound as **Peep** .
(See Fig .1)



<10-1-2>

- Use(+) or (-) switch to change the value displayed to desired size. And then, press **STOP** switch, and changed size will be stored in the memory.

<10-1-3>

- Use it after turning power switch off.

11 MAINTENANCE AND A/S

<p>Renewing water</p>	<ul style="list-style-type: none"> ■ Renew water periodically after about 100 lenses have been edged.
<p>Cleaning water supply nozzle</p>	<ul style="list-style-type: none"> ■ Water supply nozzle is readily clogged if supply continues with contaminated edging water. If it is clogged, remove from carriage and clean it using a clean water.
<p>Dressing diamond wheel</p>	<ul style="list-style-type: none"> ■ When grinding wheels are worn, more time for edging is required of bevel may not be well formed by normal edging. ■ In case of that, use a grindstone to sharpen diamond wheels. ■ Press TEST switch, and wheel begins to turn. ■ Then, press TEST switch again, and wheel will continue turning by force of inertia though an electrical signal stops. ■ When diamond wheel is turning slow at this time, apply premoistened dressing stick to diamond wheel. ■ Repeat this operation 5 to 10 times. ■ Don't dress the diamond wheel for plastic lens as said above.
<p>Resharpener a diamond wheel</p>	<ul style="list-style-type: none"> ■ If the same part of a diamond wheel is continuously used for grinding, partial wear will be caused. ■ In such a case, "dressing sick" will be no use to correct such a diamond wheel. ■ In this case, replace a diamond with a new one.

◆ Cleaning ◆	
<p>Periodic cleaning</p>	<ul style="list-style-type: none"> ■ Remove grinding chips from carriage using attached brush each day when it is used. ■ Don't flow too much water inside. Trouble may be caused.
◆ Before requesting service ◆	
<p>Water is not supplied and diamond wheel does not rotate, either.</p>	<ul style="list-style-type: none"> ■ Check if power switch is turned on.
<p>Continuous beeping sound as 'peep, peep, peep'.</p>	<ul style="list-style-type: none"> ■ Push carriage slightly right side.
<p>Diamond wheel rotates, But water is not supplied</p>	<ul style="list-style-type: none"> ■ Check that water supply cock lever is tightened up. ■ Check that water supply nozzle is clogged. ■ Check that tank is filled with water (to 80% mark). ■ Check if pump motor rotates well. ■ Check if pipes are connected well.
<p>Bevel is formed at rear side when normal edging.</p>	<ul style="list-style-type: none"> ■ Is carriage level? ■ Does grinding wheel work well as ever?
<p>Miscentering occurs.</p>	<p>Make sure that edging is done with moisture removed from suction cup.</p> <p>Check that suction cup is not scratched or cracked.</p>