

# Product use instructions

90+102、204+102L

TR-90



- Product warranty

1: Control box and foot switch warranty for 1 year

2: Handle is not within the scope of warranty (can enjoy lifelong maintenance service)

- Range of paid services

Damage caused by improper use by users

- Damage caused by incorrect voltage regulation
- Accidentally damaged during installation or handling
- Damage caused by improper use:
- Damage caused by unauthorized use of mismatched consumables or accessories
- Damage caused by unauthorized repair outside the place designated by the company

Other situations

- Damage caused by natural disasters (fire, early disaster, flood)

- Installation and debugging

1 First confirm whether the power supply of the control box is off. Then plug it in

2 Connect the control box with the handle and place the handle safely

3. Adjust the speed control knob on the control box to "0"

4 Make sure the three-valve spring has locked the pin

5 Hold the handle with one hand and turn on the power of the control box with the other hand.

6 -- Adjust the speed knob on the control box while checking the rotation of the handle.

7 Turn off the power and connect the pedal switch to check whether it works normally. .

8 Turn off the power supply and adjust the positive and negative switch. After turning on the power supply, check whether the bidirectional rotation works normally.

### **Note for child items**

1. Please avoid dangerous places to use this crystal

Please choose dry and ventilated place and use the grinder.

2. Conditional Setting

\* Temperature: +10°C-+ 40°C, humidity: 30%-75%, air pressure: 700-1060hPa

3. The handle, pedal and control box produced by our company should be used together.

4. Requirements for the use of car pins

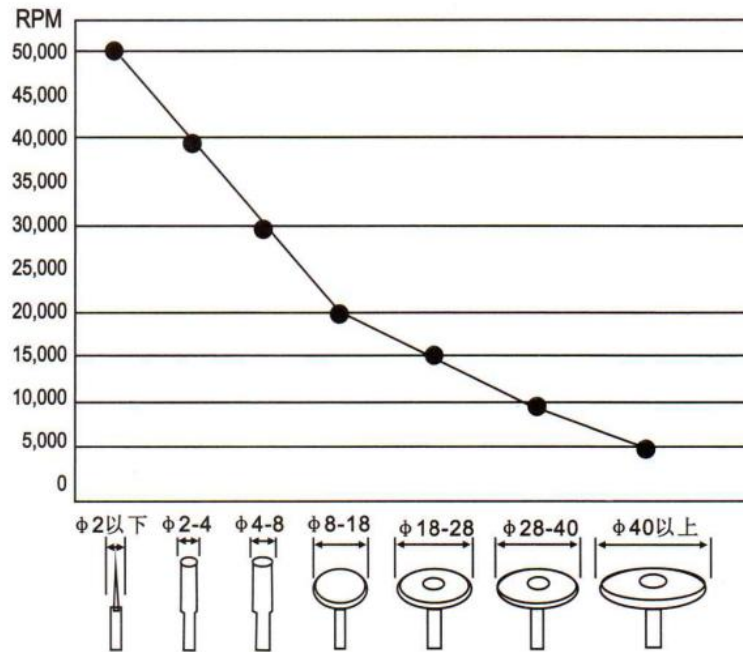
\* Diameter of needle: 2. 35mm, 3. 0mm, 3. 175mm (ISO 7785-2 type 2)

\* Minimum size of needle: 10mm

\* The maximum length of the needle exposed by closing the three-valve spring is 35mm

\* Do not use bent, deformed or rusty pins.

Please observe the safety speed and precautions specified by the pin manufacturer.



5. Check whether there is jitter and other problems in the low gear first. If there is no problem, you can change to the fast gear.
6. Do not forcibly operate the speed adjustment switch on the control box.
7. The control box uses 220V / 230V / 240V / 2A fuse.
8. when replacing the pin - be sure to open the three-valve spring to take out the pin after the handle stops (when it does not turn at all).
9. Be careful not to break or damage the handle, which is the direct cause of bearing damage.  
If the handle is accidentally dropped to the ground, first - while rotating at low speed - observe whether the pin is bent,  
Whether the bearing has a loud sound, whether the handle is very hot.
10. If there is any problem with the grinding machine during the work, it should be repaired immediately. Please use it after thorough repair.
11. Do not open the three-valve spring when the handle rotates (there will be short circuit of the motor).
12. In order to reduce the possible danger after the device is started, observe whether the switch is off before connecting the power plug  
In closed state.
13. If the motor stops working suddenly, it means that there is overload phenomenon in the motor. Please check whether the fuse is in good condition  
Avoid overload.
14. after the operation, three valve spring to clamp on the needle or replace the needle grinding head.
15. Do not place the working handle at will, and put it in place after finishing the work
16. When moving the control box, it is best to unplug the power supply first.
17. Pay attention to the accessories that match the product.
18. When using this product in different areas, be sure to follow the manufacturer's

recommended rotation speed.

19.Wear necessary work clothes and protective equipment before use.

Wear a mask and goggles, and install ventilation and a vacuum cleaner

20.Please pay attention to the environmental hygiene of the workplace. Too much residue can cause accidents.

21.No oil or water in handle.

#### handle :

problem	cause	solution
The handle does not work when the three-valve spring is closed	Check the connection of bearing, carbon brush and control box	Please consult the distributor
When rotates, both before and after the abnormal heat or hot.	Check whether the bearing is filled with oil or water	Please consult the distributor
Abnormal vibration or noise occurs when the handle is turned	View bearings and three-valve springs	Please consult the distributor
	It's possible a deformed pin was used	Get a new pin

- Matters needing to be checked when grinding machine does not work normally  
Check their own or abnormal rotation, please contact the seller to accept help.

### control box :

problem	inspection item	cause	solution
Handle does not turn	The power is not connected on	The problem is with the control box	Check fuse
	The power switch is on, But not bright lights	Check the power cable connection Or check whether the transformer is disconnected	Connect the power cord Or replace the transformer
	The power indicator is on, Turn on the power switch, Handle does not turn	Check whether the fault indicator lit	(Press the power or switch) Restart
		Open the top cover of the case and inspect Are there any burn marks ?	If it smells burnt, please stand That is to contact the seller
		Check whether the handle is connected to the control box Connect to normal	Connect the handle
		Check the foot pedal connection is not It is normal	Check that the pedals are correct The connection
		Check to see if the handle cable is broken	Please consult the distributor
		Check the carbon brush	Carbon brush can be replaced or by inquiry seller
Handle can turn	Can't control the rotation speed	Check the carbon brush	Please consult the distributor

### **Safety Precautions**

1. Do not use the damaged power socket, there is danger of electric shock and fire.
2. If the power cord, socket, handle connection is damaged, please do not continue to use, if continued use will  
Danger of electrocution, fire, electric shock.
3. When unplugging the power supply, be sure to hold the plug with your hand and be careful not to touch it with wet hands.
4. Do not press anything on the power cord or coil up the power cord, there is the danger of electric shock, fire and electric shock.
5. Do not place heat sources around the installation, and avoid being near candles or rock heads: there is a risk of fire.
6. Please place the product out of reach of children.
7. For safety reasons, should be connected to the grounding wire, product failure or leakage, there is the danger of electric shock.
8. Be careful not to plug many different devices into one socket.
9. If the tap is used, there is danger of electric shock and fire
10. Installation site Avoid wet or rainy places such as bathrooms, which may cause electric shock and fire.
11. Please place the handle properly to avoid damage (if the handle is broken, the water can not rotate normally), do not by yourself  
Easy repair, please call us first.
12. When using, please observe the contents of this manual.
13. The use of the machine itself cannot be changed without the consent of the manufacturer.
14. The company is not responsible for the accident caused by unauthorized change of using method.

- **Replace the fuse**

The fuse is behind the control box, in the small box next to the power supply.

Please open the cover of the safety box. Take out the fuse and replace it,

(20V-T3 15A/ 250V, 230V-T2A/ 250V)

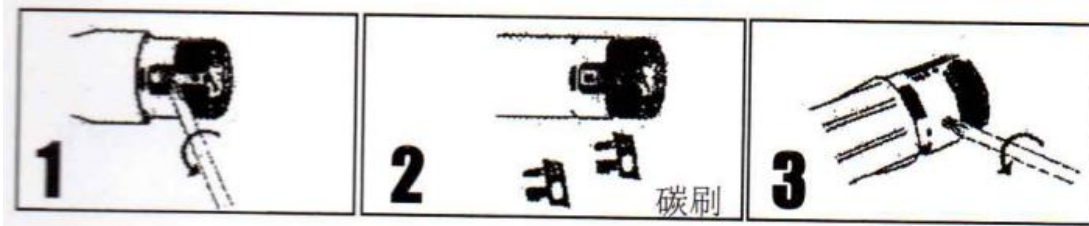
- **Replace the carbon brush**

### **[Precautions]**

Before replacing the carbon brush, check whether the power supply is off.

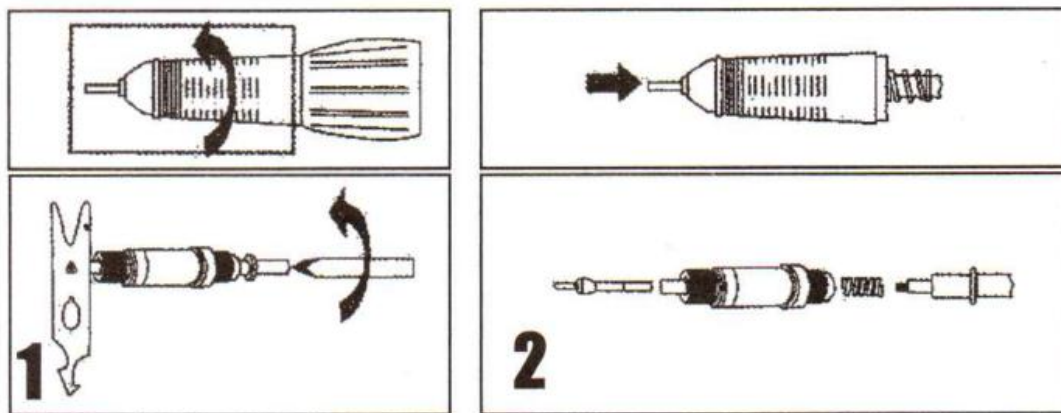
After replacing the carbon brush, run it for 1 minute to find the correct position.

Pay attention to the wear of the carbon brush on a regular basis, in case the maximum use limit of the carbon brush is exceeded and the rotor is worn.



- 1 The position of the carbon brush is outside the back cover of the handle. Unscrew the back cover first
- 2 Remove the fixing screws on the carbon brush using a screwdriver.
- 3 Replace the new carbon brush and reinstall the handle in sequence.

#### Replace the three valve spring:



- 1 Unscrew the handle and take out the shaft core
- 2 Fix the three-valve spring on the wrench and insert the screwdriver into the plastic joint. Untie the three-valve spring.

#### [Precautions]

Note when installing the new three-valve spring, check the cleanliness and neatness of the pressure head.

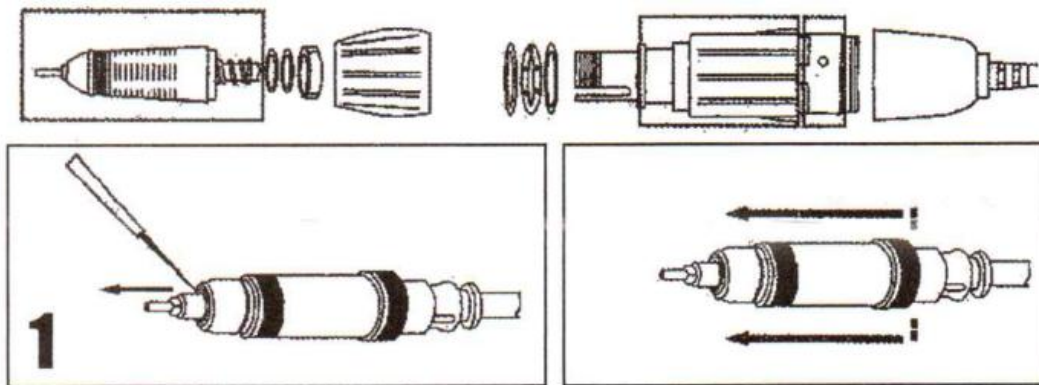
Be sure to have a skilled operator for maintenance and handling. If there is a risk of damage,

If you have disassembled and do not know how to restore, please contact the dealer.

If the assembly is not good, there may be vibration, noise, heat, bearing damage and other phenomena.

Three valve spring can not be solved with a wrench to turn 2-3.

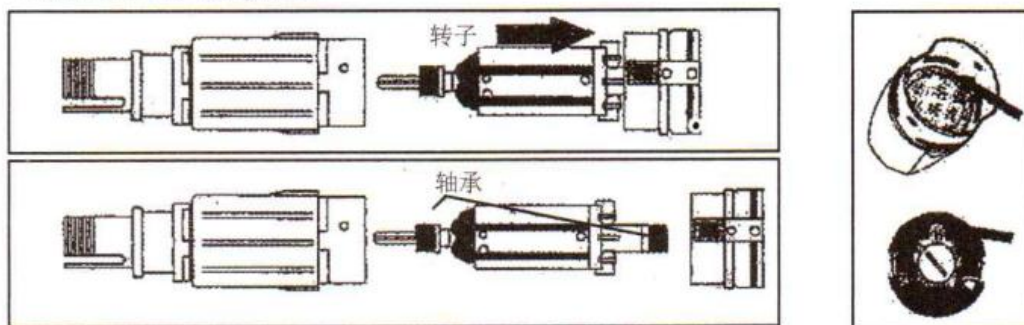
### Replace the bearing:



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### Equipment maintenance:

1. Keep the handle part clean and hygienic.
  2. If you find dust on the handle, wipe it off with a clean cloth dipped in alcohol, but pay attention to avoid water inside.  
Be careful not to rub oil or rinse with water.
- The bearings in the handle of the grinding machine are all lubricating oil. If rubbed with oil, the inner heat of the handle will burn out the bearings.
3. Air pressure cleaners can be used for sanitation, but air pressure may also cause harm:
  4. Insert and disassemble the pin
- Turn the handle to the open direction, open the three-valve spring, take out the pin, if the handle is turned to the closed direction,  
The spring is locked and the pin is secured.

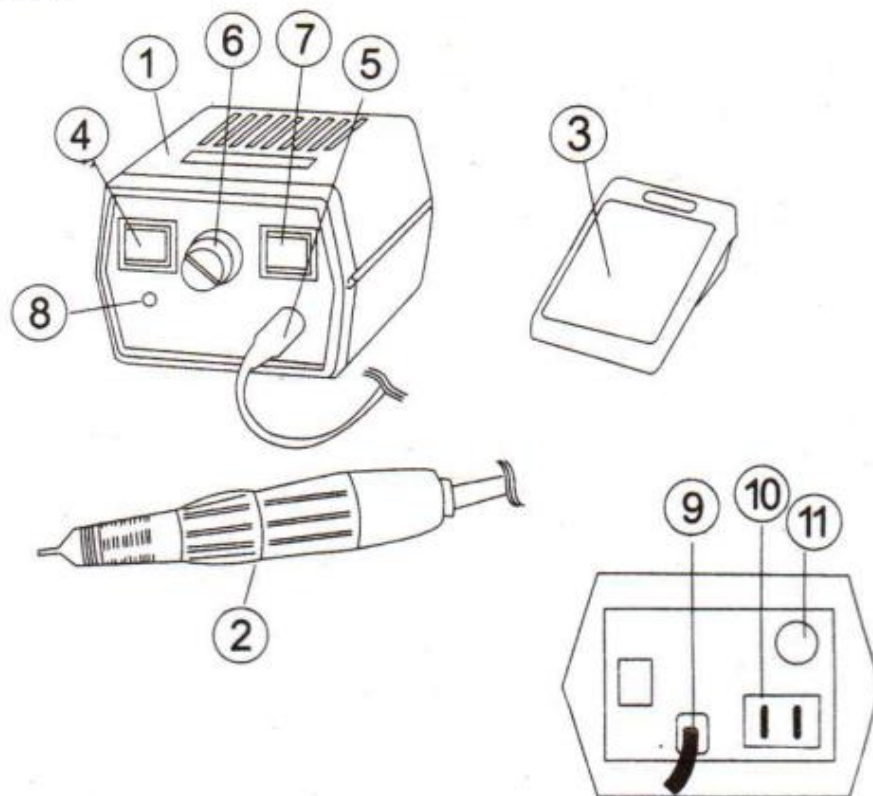


## FASTRONG 204+102L

[Name of each part]

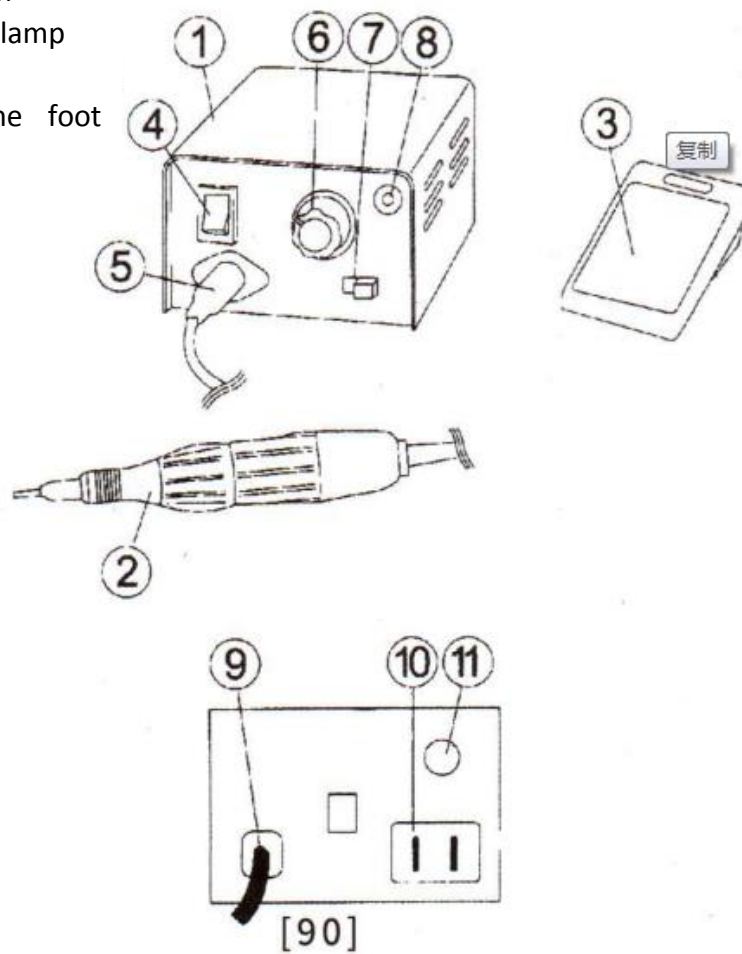
- 1, control box (host)
- 2, the handle
- 3, foot switch
4. Power switch
5. Connect the handle jack
6. Governor
- 7, positive and negative conversion switch
- 8, power display lamp
9. Power cord
10. Connect the foot switch jack
11. Safe box.

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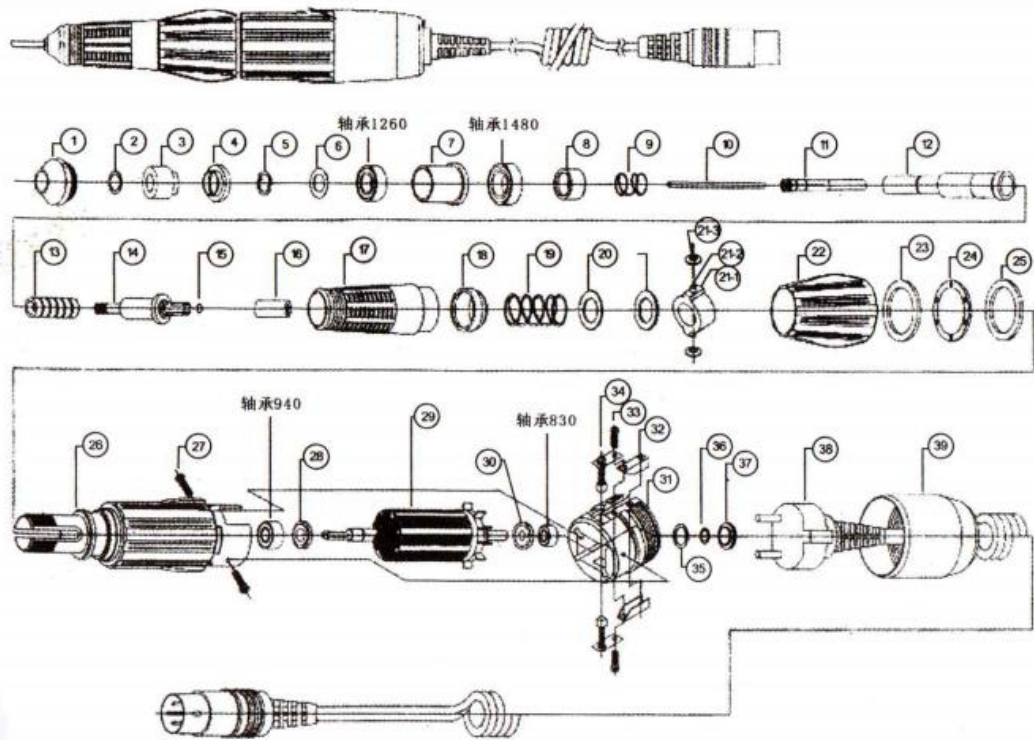


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# FASTRONG 102L (SQUARE CARBON)



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