



# INSTRUCTION MANUAL

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BRUSHLESS MICRO MOTOR

MODEL

PRIME 407

PRIME 115



**\*Read all instructions before using**

This product is mainly designed for dental laboratory use.

It Also can be applied for the jewelry, beauty, polish, carving, machining, electronic industries and so on.

Thank you for purchasing our products.

Proper maintenance can significantly extend its service life.

Keep this manual for future reference.

RHJC is not responsible for the accident causing by not following the instructions.

Design and specification of the produce can be subject to be changed for improving the quality.

Informing the type name and serial number on time, the kind consulting and quick service will be provided.

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**WARRENTY**

Handpiece-3months, Control box & Foot Pedal-1year

Warranty does not include misuse or normal wear of bearing, carbon brush, collect chuck and spindle.

**SERVICE CHARGE**

In case of the fault or malfunction from the misuse of the user.

- Using with wrong input Voltage (AV Voltage).
- In case of user's misuse or improper use.
- Dropping down during setting or moving.
- Using consumable parts or accessories not recommended by manufacturer.
- Malfunction after repairing at the places not recommended by manufacturer.
- Damage caused by improper use.

## PRODUCT SPECIFICATION

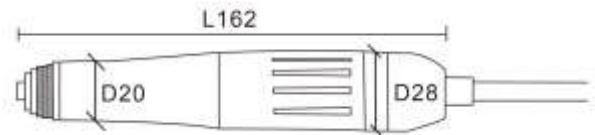
CONTROL BOX:PRIME407

INPUT POWER SOURCE	FUSE	WEIGHT	MAXIMUM LOAD CURRENT	DIMENSION(mm)
AC110~120V 50/60Hz	4A	2.31kg	2A	W160 D210
AC220~240V 50/60Hz	2A		1A	H100

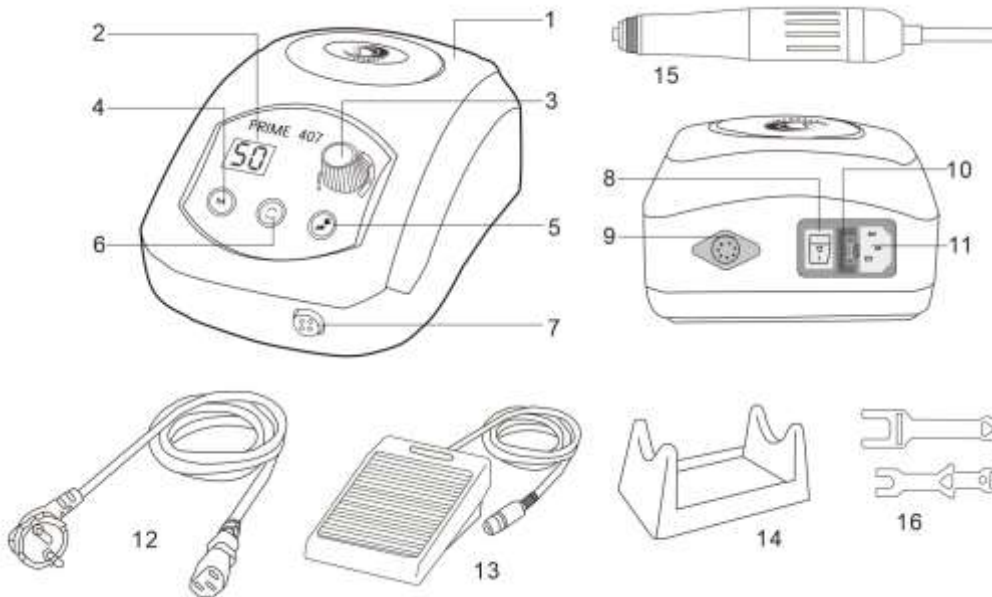


HANDPIECE: PRIME407

OUTPUT	230W
MAXIMUM SPEED	50,000RPM
TPRQUE	8.2N.cm
WEIGHT	204g
DIMENSION	L162 D20-28 (mm)



## PART NAME



- 1 CONTROL BOX
- 2 RPM DISPLAY
- 3 SPEED CONTROL DIAL
- 4 MOTOR ON or OFF BUTTON
- 5 FOOT PEDAL ON or OFF
- 6 FORWARD or REVERSE BUTTON
- 7 MOTOR CONNECTOR
- 8 POWER SWITCH
- 9 FOOT PEDAL CONNECTOR
- 10 FUSE HOLDER

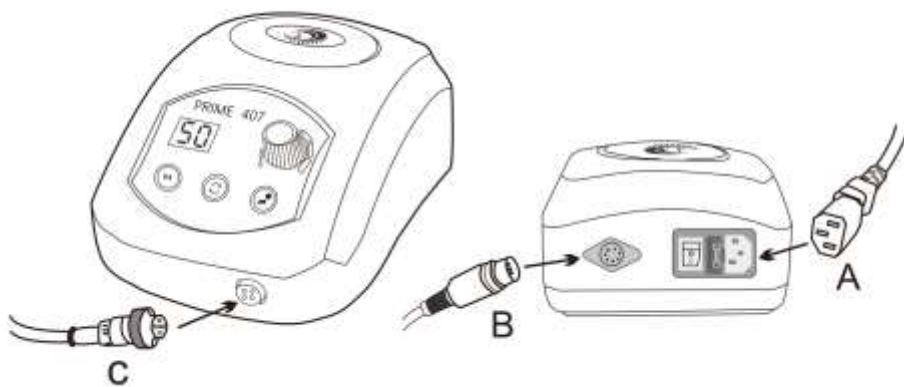
- 11 POWER CONNECTION
- 12 POWER CORD
- 13 FOOT SPEED CONTROL PEDAL
- 14 HANDPIECE HOLDER
- 15 HANDPIECE
- 16 WRENCH

\*Please make sure the item is complete

## SETTING & OPERATION

### WARNING

-Please make sure that power is OFF and connect the motor and root pedal.  
(Otherwise, it might cause malfunction.)



1 . After checking off switch in control box, plug in.

Connect the power cord with control box. (Picture A)

Connect the foot pedal to control box. (Picture B)

Connect the handpiece to output of control box. (Picture C)

2 . Set the speed dial of control box to "O".

3 . Check collect chuck of handpiece locked well turning the handle of handpiece or pulling bur out.

4 . Hold handpiece by one hand and turn on the control box power by the other hand.

5 . As indicated by the arrows, it lights green on the power on  
and shows the figures on display screen.



As indicated by the arrows, the green lights is gone off when

power off. The figures are disappeared.

6 . Select control modes whether controlling by hand or foot  
on the HAND/FOOT button.



7 . To reverse direction by "RIGHT/LIFT" button. Then it can be changed.



8 . Use "M" button for running or stopping



9 . "Hand" light will on when controlling by hand.

"Foot" light will on when controlling by foot.

Check if the handpiece works properly while adjusting the speed dial of the control box after pushing the "M" button.

Check if the handpiece works properly while adjusting the pedal after pushing the "M" button.

The speed can be changed within the range of speed preset by the speed dial of the control box. The speed will increase by stopping on pedal.

10 . In case of overloading: Control box will be stopped and shown (--) with alarm after 5 seconds. It doesn't work until pushing "power" button twice by hand.

#### SUGGESTION FOR MAINTENANCE

1 . Keep the place around in handpiece clean from dust and grindings.

2 . Remove dust on handpiece wiping with isopropyl alcohol and avoid wet inside.

Do not apply the oil to the goods or clean water. The grease inside of the bearing could melt away due to the oil.

3 . Air cleaning is acceptable, but air pressure may affect to the handpiece badly.

#### FAILURE AND SOLUTION

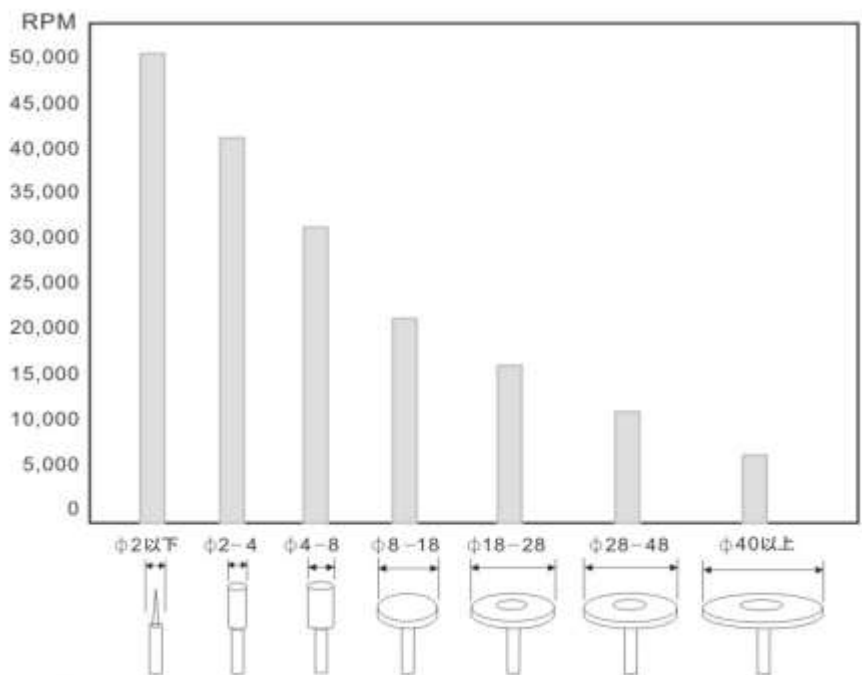
If the product does not work after checking, please contact to the seller or manufacturer.

CONDITION	CHECK POLNT	SOLUTION
RPM display doesn't appear	Check if the control box connected well with outlet.	Check if the power cord has connected well from outlet to connector
	Fuse box check	Fuse box change
	Power switch check	Power switch change
Buttons are not working	Check if it doesn't work after beep sound.	Ask to the distributor or manufacturer.
Handpiece heats up	The handpiece is warm	It heats up when it is used continuously, take a break until the heat disappear.
	The handpiece is hot.	When it's used with overload continuously, it heats up.
Handpiece doesn't rotate	Check if the chuck is open. (occur--)	Lock the chuck.
	Check if handpiece is well connected in the connector. (occur--)	Connect well again the handpiece to the connector and if still shows "--" continuously, contact to the distributor or manufacturer.



## CAUTIONS

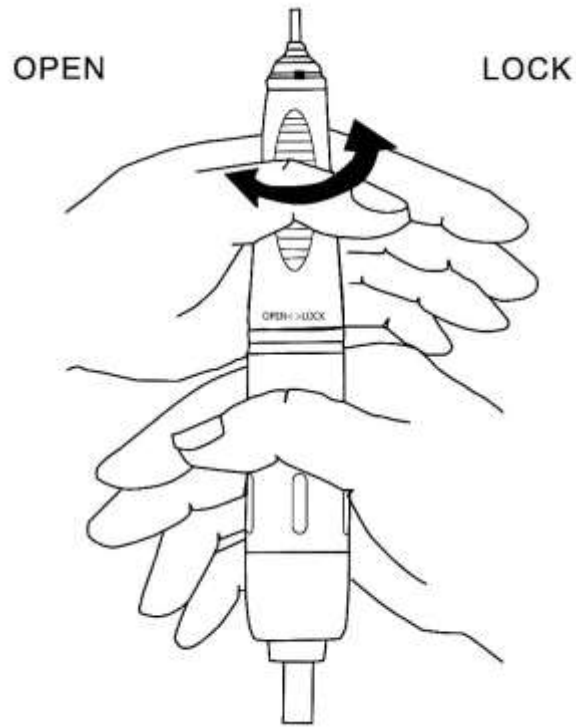
1 . Please keep the RPM according to below diagram of right against the accident.



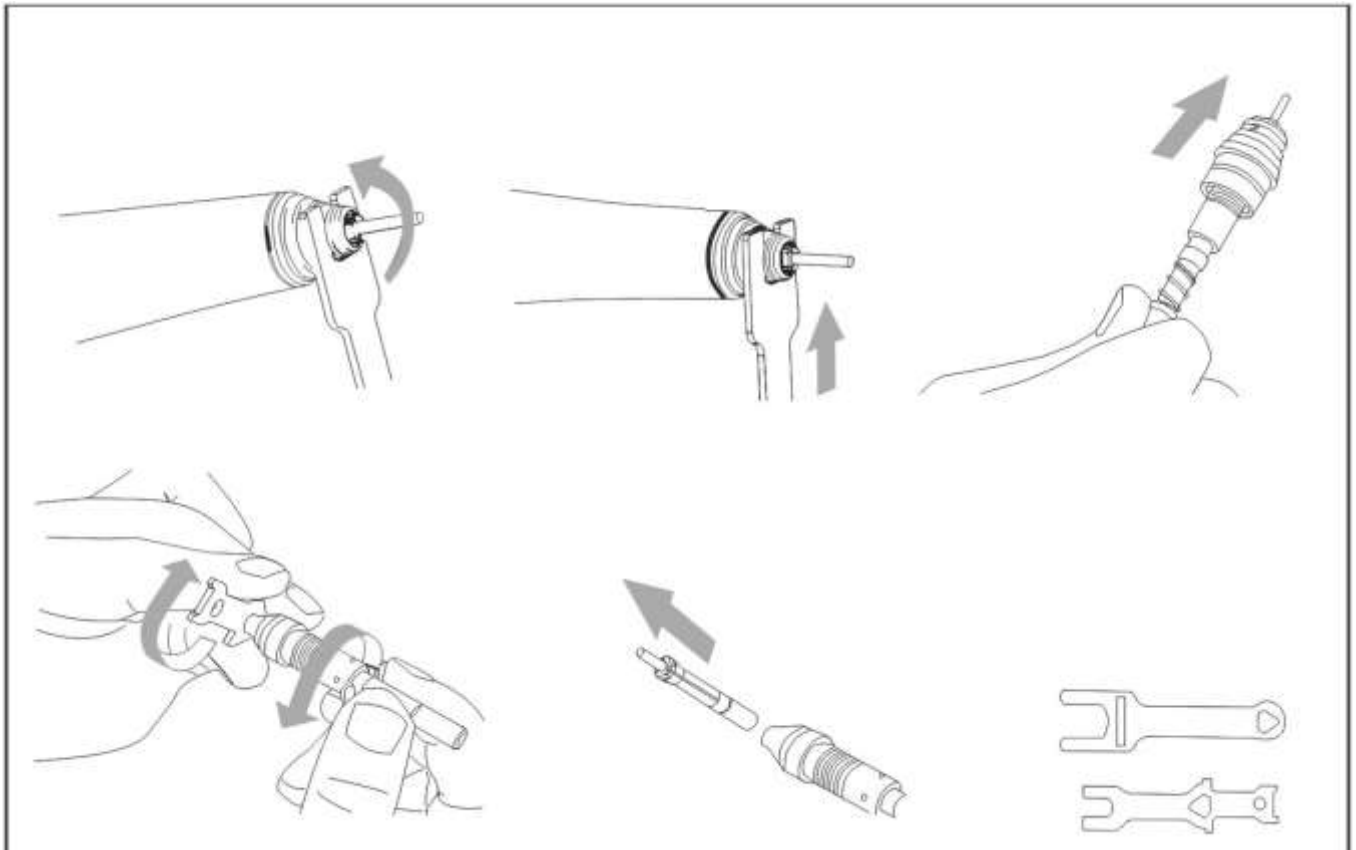
2 . If any problem occurs in handpiece, use after repairing.

- 3 . Make sure that the switch is off before putting the power plug in the socket, in order to avoid an unexpected injury due to sudden start.
- 4 . A circuit breaker is provided to protect the motor. It is actuated when there is an overload which the motor cannot stand. Work within a range of load which it is not actuated.
- 5 . Do not open the chuck while operating.
- 6 . Keep the handpiece with setting a bur to the collet chuck after operation.
- 7 . Do not put the handpiece down before it stops completely.
- 8 . Be sure to pull out the power cord before moving the control box.
- 9 . Use the specified voltage.
- 10 . Use accessories suitable for this product.
- 11 . Wear proper protective clothes and equipment, including a dust mask and safety goggles.  
Use a proper suction unit and a ventilator.
- 12 . Keep the workplace clean. Debris may cause an accident.
- 13 . Memory saves the conditions of direction and hand foot selection on turning off the power, therefore, be careful when the power on.
- 14 . Do not work at dangerous place. Do not use the control box in humid place.
- 15 . Check for any troubles, including vibration of bur, at a low speed, and then start high speed.
- 16 . When RPM is zero, you can replace the bur.
- 17 . Do not turn on the power of control box while the collet chuck of handpiece open.  
Otherwise, the figure display will show (--).

# BUR REPLACEMENT

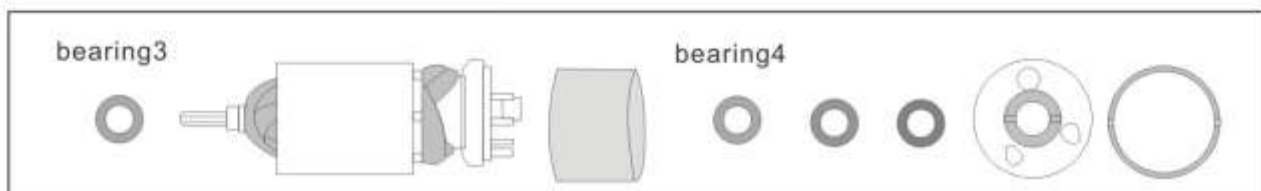
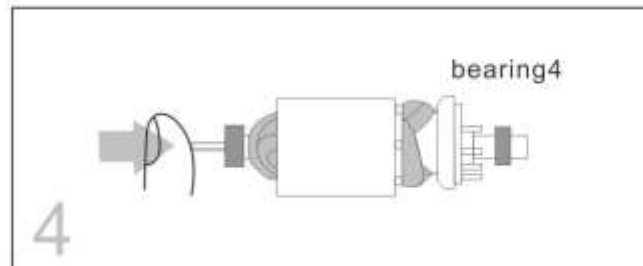
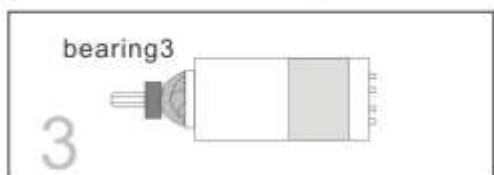
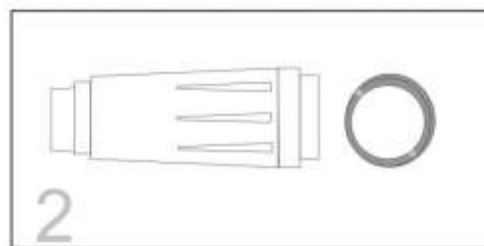
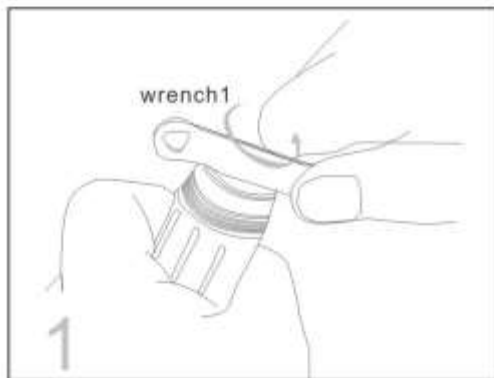
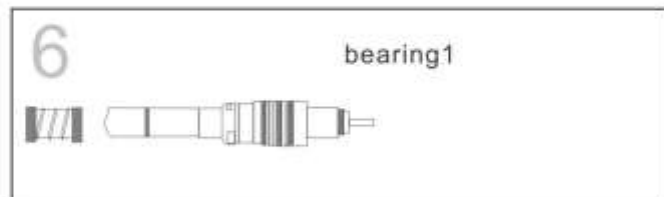
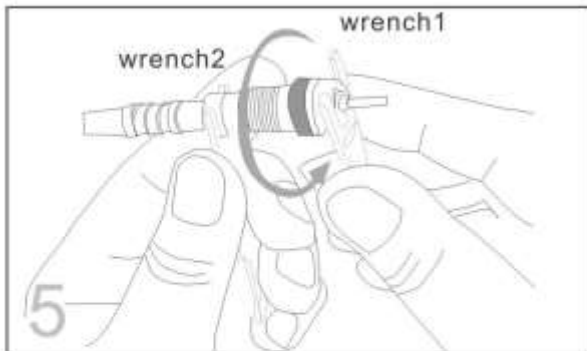
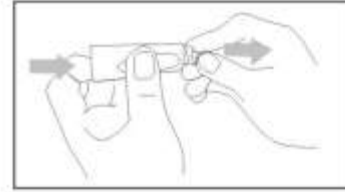
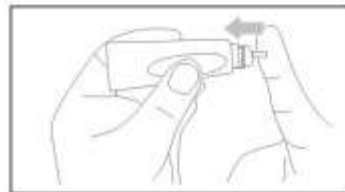
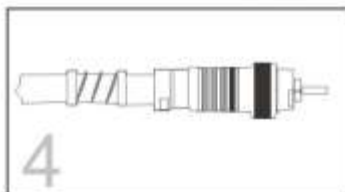
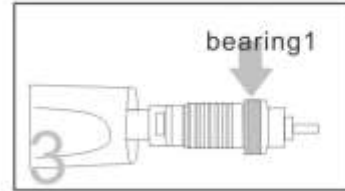
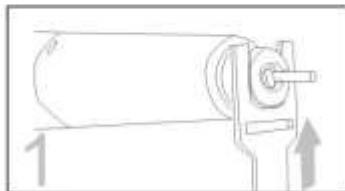
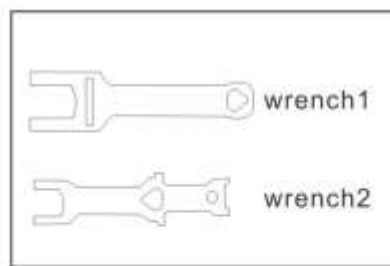
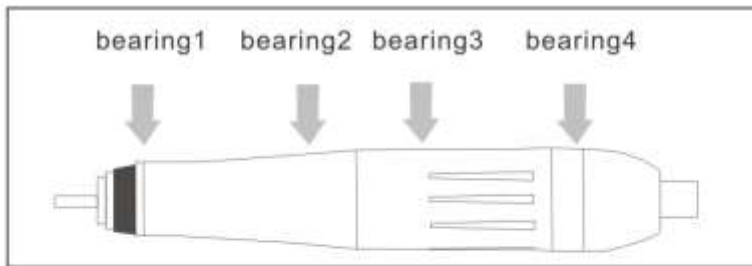


# COLLET CHUCK REPLACEMENT

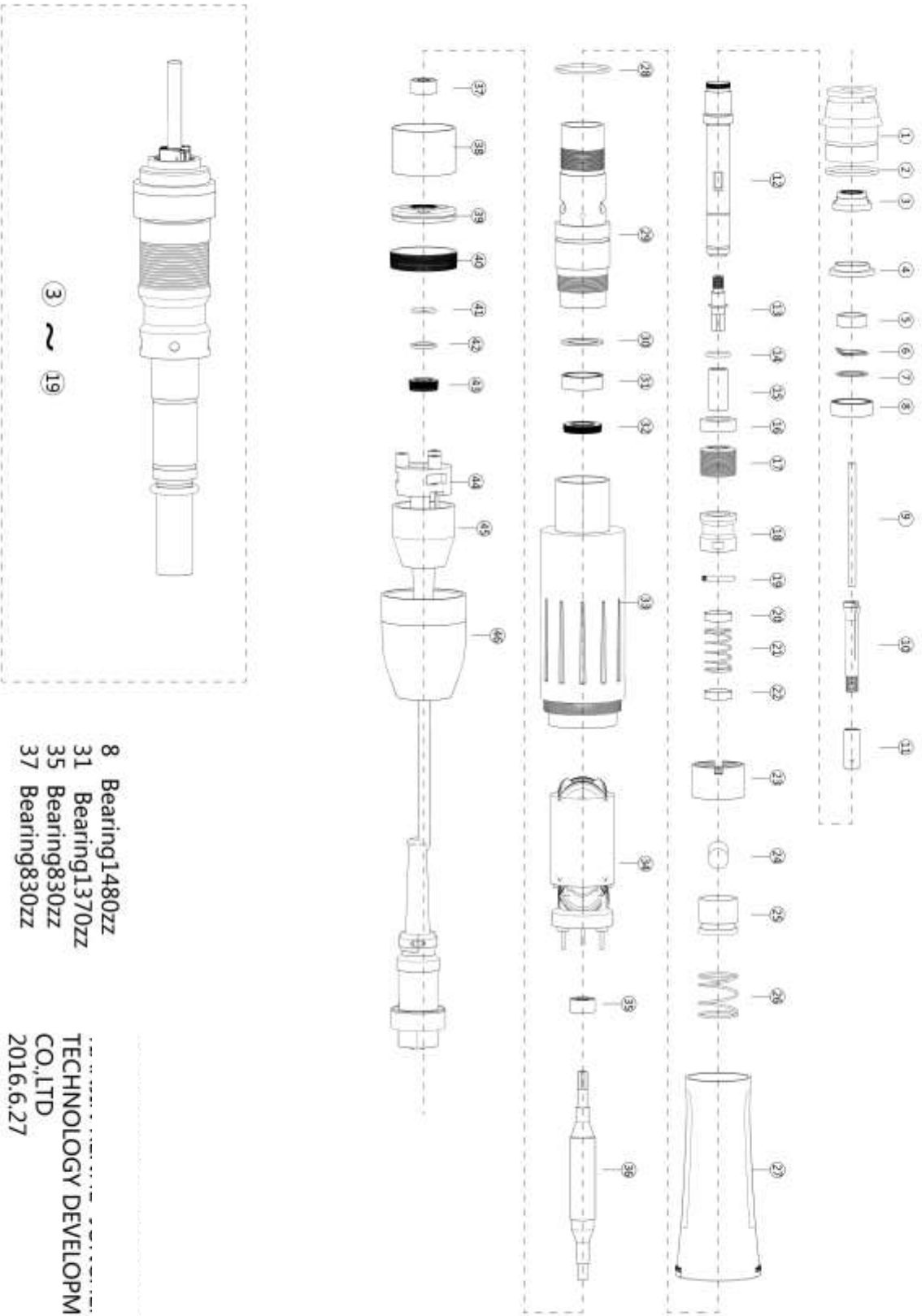




# BERING REPLACEMENT



# PRIME 407 HANDPIECE





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