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DTS-280 VET Dental System Operation Manual



WE ARE COMMITTED TO
PROVIDING VETERINARIANS
WITH THE WONDERFUL
PRODUCTS AND AFTER SALES
SUPPORT



• 3 Way Air/Water Syringe



• High Speed Handpiece



• Low Speed Handpiece



• Ultrasonic Scaler Handpiece



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TABLE OF CONTENTS

1-Introduction	3
1.1 Application	4
1.2 Note	4
1.3 Products List.....	5
1.4 Performance parameter.....	6
1.5 Environment requirements for equipment.....	7
2-Getting Started	7
3- Product Structure and Guide.....	10
3.1 Coolant Disinfectant system and Filtration	11
3.2 3 Way Air/Water Syringe.....	12
3.3 High Speed Handpiece.....	13
3.4 Low Speed Handpiece.....	14
3.5 Ultrasonic Scaler Handpiece.....	15
3.6 Handpiece Pressure Regulation.....	16
3.7 Silent Oil-Free Air Compressor.....	17
4-System safety	18
4.1 Attentions	18
4.2 Precautions	18
5-Maintenance	19
5.1 Handpiece Maintenance & Sterilization.....	19
5.2 Air Compressor Maintenance.....	20
6-Troubleshooting.....	21
5.1 High Speed Handpiece.....	21
5.2 Low Speed Handpiece	22
5.3 3 Way Air/Water Syringe	23
5.4 Air Compressor.....	23
7-Warranty	24



1-Introduction

Sincerely thanks for selecting the Veterinary Dental System manufactured by TOOTOO.

TOOTOO Dental Systems are designed with unique and practical features to make your work even more satisfying and productive.

Video Instructions

As for how to assemble and how to maintain TOOTOO dental system. All instructions are conveniently delivered to you by video instruction step by step.

Control Top

The top is a non-porous work surface which is easy to sanitize. It provides a detachable stainless plate with magnetism around the edge to supply a safe area to store the tools and prevent burs falling on the floor during procedures. The main body is made from powder coated metal and aluminum that won't warp or deteriorate with age.

Silent Oil-Free Air Compressor

TOOTOO takes an Oil free compressor - low maintenance, oil free air. Mounts underneath the unit into the body, with coolant system and noise reduction system, supplying air wherever the unit is to be used. It is more convenient than a noisy compressor which is usually situated in another room and requires a length of air line.

Color Coded System

All supply lines on TOOTOO dental systems are color coded to simplify service and maintenance requirements.

Reliable Air Lines and Pipeline

All inter air lines are bundled with brass air tip in case loosen after long time using. Outer air lines are locked with stainless connectors. And using the rubber pipeline instead of PCV pipeline to against the aging and crack.

Disinfectant System

This system is designed for occupational health and patient safety. It is designed to help reduce the risk of atmospheric pollution and the transfer of



viruses, such as FIV from patient to patient and reduce unpleasant mouth odors.

Air Particle Filters

Air particle filters are installed on TOOTOO dental systems to help reduce particles entering the air supply and reduce the potential damage to Handpiece. also reduce the unpleasant environmental odors.

LED Advantage

The self-generated LED provides daylight-quality, neutrally-coloured white light at 22,000 Lux. LED's offer a robust, long lasting Light source that barely heat up, are shock resistant and that do not emit any harmful IR and UVA rays. SUPER dental system is designed LED advantage into high speed handpiece and ultrasonic scaler.

Please read this instruction manual and all other auxiliary materials (video) carefully before installing and using the product, it will be helpful to work with it better.

1.1 Application

Veterinary dental system is a dental platform that integrates polishing, repairing, cutting and auxiliary root canal treatment. It is used for dental beauty, tooth removal, oral tumor cutting, etc., providing a convenient and favorable operating environment for animal dentists.

1.2 Note

TOOTOO dental system should be operated by a qualified person

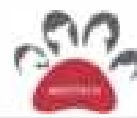
— for **Veterinary use only**



For operator safety, it is recommended that safety goggles or visor, face mask and surgical gloves be worn during all procedures.

1.3 Products List

Name	Amount	Standard/Optional	Remark
Dentalsystem host	1 set	Standard	Power cord Foot pedal Detachable magnetic stainless plate
3 way air/water syringe	1 pcs	Standard	2pcs of syringe tips
High speed handpiece	1 pcs	Standard	with LED light
Low speed handpiece	1 pcs	Standard	Straight type/ Contra-angle type
Ultrasonic Scaler handpiece	1 pcs	Standard	with LED light
Burs for HS handpiece	1 set	Optinal	Tapered fissure burs 3pcs(ISO 1/10mm) Spherical burs 5pcs(ISO 1/10mm)
Disposable polishing head	1 set	Optinal	Installed on LS handpiece for tooth polishing (5pcs)
Polishing paste	1 box	Optinal	Used with the polishing head for tooth polishing
Scaler tip	1 package	Optinal	5pcs
Lubricant for 1pcs handpieces	1 bottle	Optinal	30ml-500ml



1.4 Performance parameter

Parameter	Description
High speed handpiece working pressure	0.24Mpa~0.27Mpa 35Psi~39Psi
High speed handpiece rated speed	330,000-420,000 RPM
Low speed handpiece working pressure	0.24Mpa~0.39Mpa 35Psi~57Psi
Low speed handpiece rated speed	18,000-220,000 RPM
Ultrasonic Scaler handpiece	Piezoceramic 0.001mm~0.1mm 25,000Hz ~32,000Hz
Air compressor power supply	1) 220~230V,50/60HZ (Standard) 2) 115V/60HZ (Need External Adapter)
Air compressor output pressure	0.7Mpa 102Psi
Noise (only for air compressor air pressurization process)	Around 60db
Air tank capacity	10L
Size:	470mm*400mm*1000mm
Weigh	56KG



1.5 Environment requirements for equipment

Problem	Solution
Operation environment	Temperature:10°C~40°C
	Humidity:30%~85% (non-condensing)
	Air pressure:70 kPa~106kPa
Storage environment	Temperature: -40°C~55°C
	Humidity: <85% (non-condensing)
	Air pressure:70kPa~106kPa
Working power	1) 220~230V,50/60HZ (Standard) 2) 115V/60HZ (Need external Adapter)

2-Getting Started

1. When you take the machine away from the bottom plate, do not take the Control Top , but take the Body, in case damage the Control Top.
2. Loosen the four castor wheels under the body to move machine or lock them to fix it unmovable.
3. Unscrew the coolant distilled water supply clear bottle, then push out the accessory box, which includes all handpieces and pedal inside. Take out of all accessories, assembly and put them in holder correspondingly, and place the pedal on the floor in front of machine.
4. Fill the clear plastic water bottle with distilled water, not too full, and screw the bottle into the hole with pipe under the Control Top, tight the bottle. Fill the red plastic water bottle with disinfectant liquid, dilute with distilled water, and screw it on another side.

(Refer to the video: How to Assemble DTS)

5. Place the 3 way air/water syringe in its handpiece holder.
6. Assemble the handpieces according to the manufacturers instructions. Screw the gray handpiece air/water line onto the handpiece and place in correctly labeled handpiece holder on the dental system.



7. Connect the Host to power supply with the supplied power cord.
8. Turn on the power and the compressor start to pressurize. It needs 1 minutes to get ready on working pressure at the first time by using.
9. TOOTOO factory sets the working pressure. You can forget it. But you still can adjust individual handpiece pressure by corresponding knob easily.

(Refer to the video: The Control Panel Instruction).

If adjustment is required, make sure your compressor is set to deliver the correct working pressure. When you depress the pedal, the air pressure regulator gauge should be in Green area (Yellow area means too low pressure and Red area means too high).

10. Check handpiece and ultrasonic scaler operation:

- a) Remove High Speed Handpiece from holder and depress foot control pedal, then handpiece should now operate.
- b) Replace the High Speed handpiece and remove the Low Speed Handpiece from holder and depress foot control pedal, then handpiece should now operate.
- c) Replace the Low Speed handpiece and remove the Ultrasonic Scaler Handpiece from holder and depress foot control pedal, then handpiece should now operate.

NOTE: The DTS is fitted with automatic handpiece holders. Only one handpiece (HS or LS) can be used at any one time. Make sure that put the HS (LS) handpiece back to the holder before picking up LS (HS) handpiece.

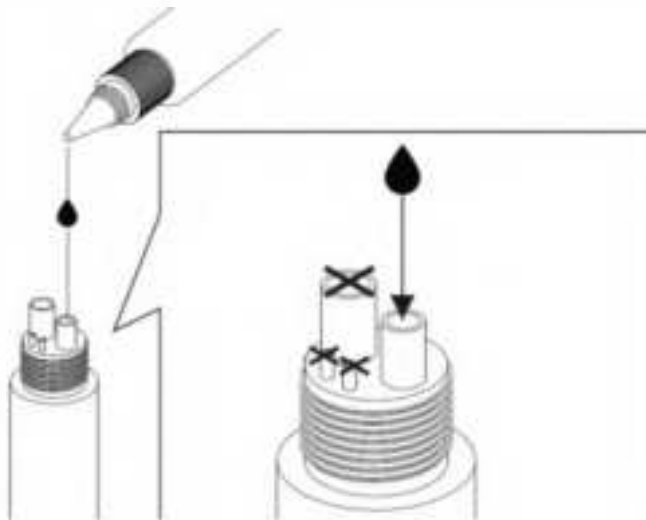


11. Check water and air supply to the 3 way air water syringe. Depress the right hand button for air and left hand button for water or both together for mist.
12. Pressurize water system by moving the coolant water system switch to ON (water drop icon), located on the control panel.

NOTE: When filling distilled water/ disinfectant bottles de-pressurize the water system, Moving the system switch to OFF (water drop/cup icon with slash)

13. Water volume. Remove HS/LS/ Ultrasonic Scaler Handpiece from holder and depress foot control pedal. Adjust water spray volume by flow control knob, and then, if required, to get a fine mist by rotating vaporization control knobs.
14. Adjust Ultrasonic Scaler Handpiece by the white color knob, located on the last of control panel.
15. HS and LS handpieces should be lubricated regularly to get optimal performance and life. Recommend lubricated before using each time. The foot pedal should be depressed for 15 seconds after oiling to ensure the lubricant will reach the turbines and working portions of the handpiece.

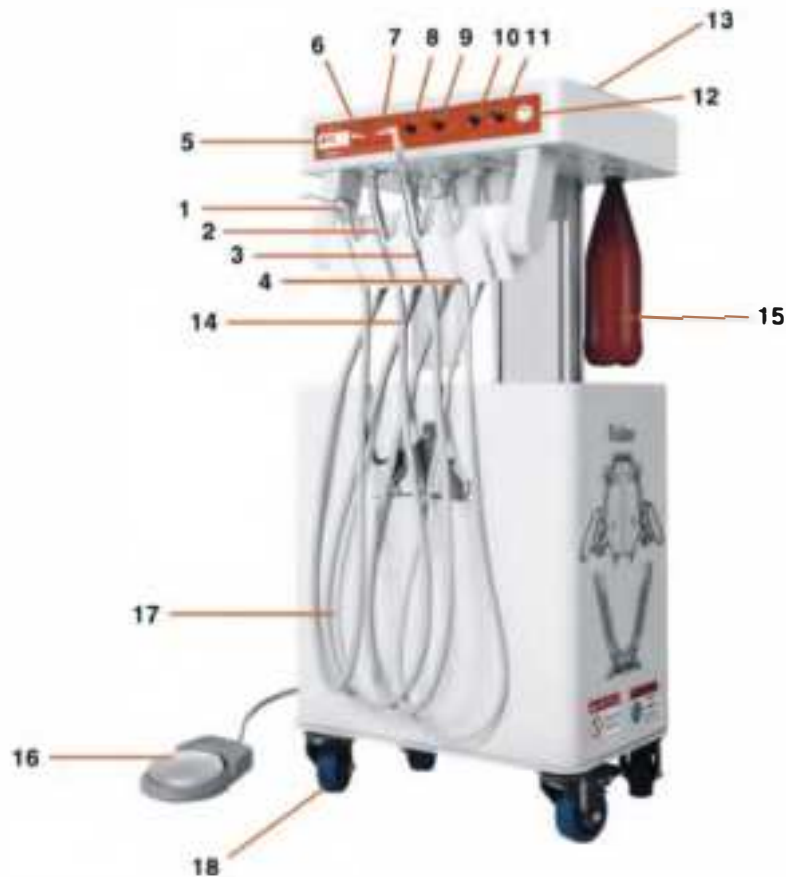
NOTE: The lubricant is placed in the smaller of the 2 large holes. "Air entry hole" at the base of the handpiece. Using before and after using for 30 minutes, please drop with lubricant.





3- Product Structure and Guide

Front



1) 3way air/water syringe

2) High speed handpiece

3) High speed handpiece (Straight type or Contra-angle type)

4) Ultrasonic scaler handpiece

5) Handpiece pressure gauge

6) Water ON/OFF toggle switch

7) Disinfectant ON/OFF toggle switch

8) Water volume adjustment knob

9) Mist volume adjustment knob

10) HS pressure/speed adjustment knob

11) LS pressure/speed adjustment knob



- 12) Ultrasonic scaler power adjustment knob
- 13) Control Top — Detachable stainless plate with magnetism
- 14) Clear bottle for distilled water
- 15) Red bottle for disinfectant
- 16) Control pedal
- 17) Body — Air compressor group
- 18) Caster

Back



- 19) Air filter drain valve
- 20) Compressor tank drain valve
- 21) Host power ON/OFF button
- 22) Host power input port

3.1 Coolant Disinfectant system and Filtration

TOOTOO dental system is supplied with a clear and a red water bottle. The clear bottle should be filled only with distilled water to assist in preventing mineral or bacteria build up in the handpieces. This water bottle supplies the handpieces, 3 way air water syringe and ultrasonic scaler coolant.

The coolant system for your dental system, has been preset. You can turn on and off it by toggle switch to get the coolant water supply.

TOOTOO water system allows you to choose between distilled water and disinfectant liquid by toggle switch, depending on the dental procedure you wish to perform. The chlorhexidine is light sensitive and should be kept in the red bottle provided.



Refilling Coolant Bottles

To refill the distilled water or disinfectant liquid, toggle the pressure switch on your dental system to OFF - depressurizing the system. After the system has been depressurized, unscrew the bottle and refill with either distilled water or disinfectant liquid. After filling the coolant bottle screw it back into the holder and toggle the pressure switch to ON, repressurizing the system.

DO NOT OVERTIGHTEN THE BOTTLES.

Please Note: When the day's dental procedures are complete, toggle the pressure ON/OFF switch to the OFF position, depressurizing the coolant bottles

NOTE: Failure to use distilled water will void the machine warranty, which will result in crystal deposits forming, damage handpieces gear/ motor and block valves.

Filtration System

The use of distilled water is mandatory in the water bottles, as local water may clog the system and can corrode the brass valves in the system, apart from the risk of a bacterial build up.

Chlorine in tap water can cause flocculation, clogging filters and valves. If you have no choice to use tap water. You need buy Inline filter, and fix it on the pipeline in the supply bottles. This kind of filtration help prevent particles from entering the system and blocking handpieces. This kind of filter is located in the distilled water and disinfectant bottles.

Attention: This kind of inline filter need to be checked and replaced if they appear dirty.

Cleaning

Bottles may be sterilized with ethylene oxide or by chemical sterilization

3.2 3 Way Air/Water Syringe

Your choice of air, water, or fine mist spray. Depress the right-hand button for air (with air injection icon) and the left-hand button for water (with water drop icon) and both for a fine mist.

User could select water or disinfectant by the water/disinfectant toggle switch.

The 3 way syringe is ideal for flushing away debris during prophylaxis or drying areas during endodontic procedures.



- 1) Out ring housing
- 2) Air
- 3) Water

Tip Removal

The tip of the 3 way syringe may be removed for cleaning and autoclaving.

Simply depress the outer ring housing and remove the tip. (See diagram as above).

3.3 High Speed Handpiece

The High Speed Handpiece is designed to operate well at pressure gauge in Green area (Yellow means not enough, Red means too high pressure) .

The handpiece is designed at speeds of up to 400,000 rpm. A very light touch is necessary as handpieces operates with very low torque and high speed. Pressure on the handpiece of 30gms (1ounce) or more, will cause the bur to stall.

Distilled water can be ejected by HS handpiece. Fine mist is easily adjusted by knob on control panel.

Note: All handpieces should be lubricated prior to use.

Please refer to (2-Getting Start No.15)

Bur Replacement

1. Depress the head back of handpiece with your thumb and pull out the bur.



2. Insert the bur into the hole all the way until it stops, and then depress the head back of handpiece with your thumb, at the same time, depress the bur again until it stops.

3. To change the Bur repeat step 1. and step 2.

To increase the life of the Handpiece, Oil between each use and use a new Bur between each patient. See Handpiece manual.



3.4 Low Speed Handpiece

The low speed handpiece kinds include Straight type without coolant and Contra-angel type with water pipeline.



Both of them can adjust the air pressure and can adjust the speed and rotation direction by the knob located on handpiece itself. The straight type reducing head is designed for polishing. The speed of the polishing cup should be maintained at less than 5,000 r.p.m. The reducing attachment therefore allows the motor speed and torque to be maintained while reducing the polishing speed, not generate excessive



heat. But the Contra-angle type can get more position and application than Straight type, also it can coolant by distilled water from pipeline.

Please refer to the video to understand how to install the polishing head (lock and unlock), adjust speed and direction.

3.5 Ultrasonic Scaler Handpiece

Find the red dot to match and assemble the ultrasonic scaler handpiece.

Using the plastic wrench to lock and unlock the tips (refer to the handpiece manual).

it allows users to set power output at their desired level of operation by white knob which is located on control panel.

Please refer to the video to understand how to install the tip and adjust power.

The ultrasonic scaler with LED light technology has been designed for use in the areas of scaling, periodontology, endodontics, and micro-preparation. Lightweight handpiece with pedal on/ off control.





3.7 Silent Oil-Free Air Compressor

The compressor is perhaps the most crucial part of any dental system as it supplies the valuable air needed to run handpieces and pressurize the water and cooling system.

factory has set ready, you can forget any setting, very simple to use. Just attention: **Connect The Host to The Appropriate Voltage.**

High voltage used on this equipment.

Isolate from mains before removing any covers, which should only be carried out by a qualified electrician.

Ensure power outlet is adequately rated for this unit.

Isolate power supply and relieve air pressure prior to service tasks.

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.



4-System safety

Please read safety instructions carefully. For the sake of safety, please be sure to be aware of the followings:

4.1 Attentions

- Correct cable connection
Ensure the correct voltage and securely grounding.
- Avoid exposure of all electronic cables
Do not touch any electronic devices and circuits inside the device
- Please stop the device in case of suspected failure
If there is potential danger in the device or it cannot be operated properly, contact authorized technical personnel.
- Correct device (all handpiece) connection
Connect device correctly to avoid difficulties in operation due to wrong connection, resulting in disconnection.

4.2 Precautions

- Fasten power cord to prevent poor power contact.
- Pay attention to shock-, water-, humidity-, pressure-, and fire-proof.
- Pay attention to handling strength and position during moving and handling, to prevent damage or dump the instrument.
- Untrained personnel are prohibited from operating the equipment. Please use a reliable grounding device.
- Users shall undertake corresponding duties due to any improper cleaning, maintenance and operation.
- In case that the equipment host is disassembled without permission of TOOTO, it shall no longer be guaranteed by the Company with technical maintenance service. Please contact authorized personnel or TOOTO for support in case of any technical problems.



5-Maintenance

5.1 Handpiece Maintenance & Sterilization

All handpieces have a working life but it can be extended by maintaining with the correct operating pressures and speeds as well as adequate lubrication.

Device	Maintenance		Sterilization	
	Daily	Yearly	Before	After
High Speed Handpiece	<p>Oil before or after use</p> <p>Oil in smaller of 2 big holes. Depress the foot pedal for 10 seconds to ensure the oil reaches the Turbine.</p> <p>(Vedio: How to maintain LS)</p>	<p>Replace turbine and 'o' rings and sealing gasket. If worn</p>	<p>1) Thoroughly cleaned to remove any foreign particles, eg; blood, saliva etc.</p> <p>2) Clean the exterior of the handpiece with any good surgical disinfectant. Be sure to rinse and dry thoroughly.</p> <p>3) Remove moisture with a towel or use air from the 3 way air water syringe.</p> <p>4) Take off the bur and lubricate handpiece turbine with lubricant.</p> <p>5) Seal the handpiece in sterilization tubing bags before autoclaving</p>	<p>1) Allow handpieces to cool down then lubricate handpiece thoroughly.</p> <p>2) Stored in another container to avoid recontaminating.</p>
Low Speed Handpiece	<p>Same as above (HS instruction)</p> <p>(Vedio: How to maintain LS)</p>	<p>Replace turbine and 'o' rings and sealing gasket. If worn</p>	<p>Almost same as HS, but need to remove head from handpiece, and oil through both end openings.</p> <p>After lubricating items, assemble and operate for a few seconds, or use air from the 3 way air water syringe to expel excess lubricant.</p>	<p>Same as above (HS instruction)</p>
Ultrasonic Scaler Handpiece	<p>1) Clean with any good surgical disinfectant.</p> <p>2) Be sure to rinse and dry thoroughly</p>	<p>Replace turbine and 'o' rings and sealing gasket. If worn</p>	<p>1) Clean and remove the 'o' ring and led diffuser</p> <p>2) Clean with any good surgical disinfectant, but be sure to rinse and dry thoroughly.</p>	<p>Stored in another container to avoid recontaminating.</p>
Polishing Head	<p>Dispose between pa-tients to prevent cross contamination</p>			



The working life of most handpieces turbines is 12-24 months, however, it will depend upon the degree of care and the frequency of use.

Note: Make sure that the turbine cartridge and head cavity are cleaned thoroughly before autoclaving.

If autoclaved with bloody particles in the turbine housing, autoclaving will cause particles to be scorched and damage to the turbine. Prior to autoclaving, lubricate items.

Note: Do not autoclave the handpiece with a bur.
Do not exceed temperatures of 275°F or 135°

Lubricant after cooling down, do not allow hand- piece to sit in sealing bag overnight or for a long period.

5.2 Air Compressor Maintenance

Turn off the power before **Daily Maintenance**

1. Drain moisture for the air filter (open the valve No.19).
2. Drain the moisture from the compressor tank (open the valve No.20).



Drain all water and empty the gas every time.

Yearly Maintenance:

It is recommended to replace the inlet filters and pressure regulator filters every year, please contact the after-sale service personnel for dealing with it.



6-Troubleshooting

The chapter describes problems (faults) and suggested measures that are common in using the product.

6.1 High Speed Handpiece

Problem	Cause	Solution
No Water Flow in Handpiece	1) Compressor not ON.	Turn compressor ON and check that ON/OFF tap is in the ON position.
	2) Water flow control not ON.	Turn water control to ON.
	3) Water/Disinfectant bottle empty.	Fill water/Disinfectant Bottle.
	4) The water line is blocked.	Check lines and pressure.
	5) Check if 3 way syring has water	If yes, lack of water must be in the valves or the handpiece. The 3 way syringe is the quickest way to check for water.
	5) Use of tap water, blocking water filter.	Valves will need replacing.
Mineral Accumulation	6) Pressure regulator is loose.	Contact after-sales personnel.
	1) Use of tap water - mineral or chemical action blockage will usually take 3-4 years to occur.	Pass a fine wire through the water intake hole. Pass another fine wire through the hole in the handpiece head. Pass the wire as far as possible each way, Blow out the loosened mineral accumulation.
Use of Chlorhexidine	2) Verdigrise build up in brass water valves due to chemical reaction with tap water.	Replace valves.
	1) Most of disinfectants will cause solution deposit and block valves Note: insufficient dilution can also cause deposition.	Do not dilute beyond its label recommendations Contact the after-sales personnel if request
Use of Chlorhexidine	2) Chlorine in tap water will cause a flocculation and block filters and valves	Use distilled water only
	Handpiece won't run	Drive head damaged
LED is not on	LED damaged	Contact the after-sales personnel



6.2 Low Speed Handpiece

Problem	Cause	Solution
No Water Flow in Handpiece	1) Compressor not ON.	Turn compressor ON and check that ON/OFF tap is in the ON position.
	2) Water flow control not ON.	Turn water control to ON.
	3) Water/Disinfectant bottle empty.	Fill water/Disinfectant Bottle.
	4) The water line is blocked.	Check lines and pressure.
	5) Check if 3 way syring has water	If yes, lack of water must be in the valves or the handpiece. The 3 way syringe is the quickest way to check for water.
	5) Use of tap water, blocking water filter.	Valves will need replacing.
	6) Pressure regulator is loose.	Contact after-sales personnel.
Mineral Accumulation	1) Use of tap water - mineral or chemical action blockage will usually take 3-4 years to occur.	Pass a fine wire through the water intake hole. Pass another fine wire through the hole in the handpiece head. Pass the wire as far as possible each way, Blow out the loosened mineral accumulation.
	2) Verdigrease build up in brass water valves due to chemical reaction with tap water.	Replace valves.
Handpiece won't run	1) No or low air pressure.	Check the air line to be sure the air is turned on and the line is unobstructed.
	2) Inferior oil; too much or too little oil or water in the turbine.	Refer to lubrication instructions.
	3) Drive head damaged.	Contact the after-sales personnel
The polishing head has no effect	Polishing head is loose	Reinstall the polishing head and screw it.
Overheat of polishing head	Pressure is too large	Adjust the speed of handpiece
The polishing head not run	Handpiece doesn't run	Check the manual of LS handpiece, depress the pedal, adjust the speed control knob



6.3 3Way Air/Water Syringe

Problem	Cause	Solution
No Water Flow in Handpiece	1) Compressor not ON.	Turn compressor ON and check that ON/OFF tap is in the ON position.
	2) Water flow control not ON.	Turn water control to ON.
	3) Water/Disinfectant bottle empty.	Fill water/Disinfectant Bottle.
	4) The water/ air line is blocked.	Check lines and pressure.
	5) Use of tap water, blocking water filter.	Valves will need replacing.
	6) Pressure regulator is loose.	Contact after-sales personnel.
Mineral Accumulation	1) Use of tap water - mineral or chemical action blockage will usually take 3-4 years to occur.	Pass a fine wire through the water intake hole. Pass another fine wire through the hole in the handpiece head. Pass the wire as far as possible each way, Blow out the loosened mineral accumulation.
	2) Verdigrase build up in brass water valves due to chemical reaction with tap water.	Replace valves.

6.4 Air Compressor

Check the supply voltage and grounding.

Check whether the power cord in socket is well plugged.

Contact the after-sales personnel.



7-Warranty

The warranty of this equipment starts from the date of leaving the factory. During the warranty period, the equipment cannot be used normally due to problems such as materials and process defects. SUPER undertakes after-sales service such as equipment maintenance and parts replacement.

Any damage caused by improper use or over-range use is not covered by the warranty. If repair or replacement of parts is required, the cost will be borne by the user.

If the reworked equipment was found to have been unauthorized disassembly, TOOTOO will not provide after-sales service such as warranty, free maintenance and parts replacement.

The warranty statement (including its restrictions) is exclusively issued by TOOTOO and covers all other warranties.



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