

## Joinchamp Dental Unit F&Q

NO	MALFUNCTION	REASON	JUDGEMENT AND EXCLUSION
1	The cooling water of the handpiece doesn't atomize, and the water spurts out as pole	The atomization of cooling water needs the compress air, in this case, there should be no air current or the air current is too small.	<p>(1) Check whether the regulator valve for atomization air is closed or not, or the cooling water is too big, but the atomization air is too small. If in this case, regulation is suitable.</p> <p>(2) Open the cover of instrument disc, find out one way valve between the atomization regulator valve and rub valve, and then take out the windpipe of it. if there is no air out or the air is too small, it is possibly the one way valve 's problem, change another one if there is one for preparation, if no, take out the valve core</p> <p>(3) If the one way valve is normal, but the atomization air could not be adjusted, maybe the blowing air one way valve is leaking air.</p>
2	Loosen the pedal switch, the water of the handpiece doesn't stop until spurting for a few second.	The cooling water is controlled in series by rub valve and one way air control valve. It works properly while both of them is open.If you want to stop, just close one of them, the water won't come out from the handpieces., but the one way air control valve is controlled by the pedal switch, when the work is over, first loosen the pedal switch, and close the one way air control valve, but the handpiece is still on the hand, the rub valve is not closed, so the malfunction is caused by not closing one way air control valve on time. There are two reasons:: (1)、The valve core doesn't reposition in time, there maybe some impurity or the rubber ring expands so that the it could not reposition normally. (2) The pedal switch doesn't exhaust in time.	Open the instrument lid. Find out the one way air control valve, .take off the drainpipe and windpipe, then cover the air pipe on the connected rib of control air. (no need to cover inside ), check whether the drainage from the connected nib of the one way air control valve is closed in time or not. If not maybe that is the one way air control valve's problem.,wash the valve core. Drop little silicon oil on the rubber ring, or change a new valve. If close on time, maybe that is caused by the pedal switch not exhausting in time. Temporality, you should check whether the pipe connecting one way valve to the pedal switch is broken or extrusion, if not ,for the round pedal switch ,maybe the middle valve core couldn't exhaust in time; for the square pedal switch, maybe the hydrosphere

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3	When Take up the handpiece, it sprays some water first.	When the handpieces stop work, loosen the pedal switch, then the one way air control valve is closed, there is full of water from drainpipe to the rub valve. Due to the balance of inside and out side pressure, the water won't come out from the handpiece even if the handpiece isn't laid back to the tray. (the rub valve is not closed). When pick up the handpiece, the rub valve is open, if some water spray out ,the inside pressure of the rub valve must increases, there are two reasons: (1) the one way air control water valve leaks water. When the handpiece is one the tray, the one way air control water valve couldn't close completely, so the water from the water bottle will infiltrer rub valve, making the inside pressure increase. When you pick up the handpiece, the rub valve open, then water sprays out. (2) The rub valve is fleeing air, when the handpiece is on the tray, because of the control air's long time effect on the rub valve, if the inner surface of the rub valve is not smooth or there is some impurity, the control air may flee to the water,causing high water pressure, when you pick up the handpiece, the water will spray out(here the rub valve is opened)	<p>valve couldn't exhaust in time, change rubber ring or change another valve.</p> <p>(1) First of all take off the water out pipe of the one way air control water valve (the one connected to the rub valve), fill half cup of water, insert the water pipe into the water, check whether it bubbles up, if there is some air bubble, then the rub valve flees air, open the rub valve, check the airproof condition, clean rub valve and airproof surface of the valve, install again, please pay attention to equality of degree of tightness of the screw.</p> <p>(2) reexamine whether the water out of the one way air control water valve drops water or not. (make sure add air to the water bottle), if some water drop out, that means that the one way air control water valve is not closed firmly enough. Clean the valve core, or change the one way air control water valve.</p>
4	Impotence of handpieces	The normal rotate speed and torsion depends on the air pressure and air current. If the drive air pressure or the air current is not enough, it will affect the rotate speed, otherwise the damage of the handpieces axletree will also affect the rotate speed and torsion.	<p>Take up the handpieces, step on the pedal switch, if the pressure of the handpiece is normal ,examine the pressure gauge on the instrument disc whether the indicated pressure is too low (normal high speed is:0.22-0.24MP) ,if it is too low, should adjust the regulator to the suitable pressure.</p> <p>Examine the return air pipe of the return air bottle inserts too deeply,</p>

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			<p>effect the air exhaust, screw out the exhaust bottle, check are there any change to the rotate speed, if yes, adjust the deepness of return air pipe, or whether are the air holes around the exhaust bottle too small.</p> <p>If the way is not feasible, when the handpiece works, examine whether the pressure gauge on the floor box is suitable, the normal parameter should be 0.55MP, which won't change during the working process, if the pressure reduces when it works, that means that the big decompression valve doesn't work, you could take off the relief valve, screw out the filter cup and filter net, take out the valve core, clean the valve core and inner holes. If the malfunction can't be excluded, then you need to change the decompression valve.</p>
5	<p>When the three way syringe works, there is no water, no air, no electricity to the whole unit. (for the models upward 93)</p>	<p>There are two three way syringes on the models upward 93, the one on the instrument disc controls air, it comes from the five multi-way connector in the floor box directly to the multi-way connector in the instrument disc, the main control air&amp; water valve and air control switch in the floor box control water, air ,electricity, the air comes out from the side of the main valve, via the air switch to five multi-way connection, then to the instrument disc, then return to the main control air&amp; water valve and air switch as control air, but the plastic handle will wear and tear after long time use, that may cause the decrease of air switch open degree, because air switch aerates not enough air, the air pressure reduces, then main control air&amp; water valve and air switch reposition, causing water, air ,electricity break off, when three</p>	<p>Change the air switch, if there is no air switch ,you could place a piece of plastic sheet under the plastic handle , or take off the air switch ,connect five multi-way connector to main control air&amp; water valve directly.</p>

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		way syringe stops works, the pressure goes up, water, air and electricity connects again.	
6	Saliva ejector has no power and water sprays out	The suction saliva ejector is produced by the current from the producer, take out the air, causing the negative pressure. If the water pressure is not enough, or filter cup leaks water, or the produce or the water pipe is jammed, it will cause saliva ejector no power.	<p>(1) Examine whether the pressure of the cuspidor or gargle pipe is normal. If the pressure of water supply is normal, but the pressure of the gargle pipe is small. That maybe the water filter is not cleaned after long time used, it is jammed by the scale. In this situation, please clean the water filter. If the water pressure is too low, then you need to add a pump before the water pipe.</p> <p>(2) if the water pressure of the exterior and gargle pipe is normal, then examine whether the filter cup is airtight or broken.</p> <p>(3) if the water sprays out of saliva ejector when it is used. Then examine the floor box whether the downcomer is bended so that it could not drain, or the negative producer is jammed, please clean it.</p>
7	The drainpipe of saliva ejector drains water without end	The saliva ejector is implemented by the holder valve controlling the block valve in the unit box., when you pick up the saliva ejector from the holder, the compress air gets through the bottom of the block valve by getting across the holder valve (closed holder), making the block valve open, current forms negative pressure by saliva ejector producer, the moment when the handle of saliva ejector lays back the holder, the control air of the bottom of the block valve gets out while the holder closes, the block valve is reposition, the water is closed up. If the current of the downcomer is without end, that means the block valve is not closed, three possible reasons: (1) the handle is not on the right position, the holder valve is not	<p>(1)、insert the handle into the right position.</p> <p>(2)、open the unit box, take out the saliva ejector windpipe of the block valve, if the water stops getting out, that is the holder valve's problem, adjust or change the holder valve.</p> <p>(3) if the water flows without end, that means the block valve could not be reposition, maybe the valve core is locked, take it out to clean with some lube. Set up as original, the malfunction is excluded.</p>

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		closed and no exhaust, causing the block valve could not be closed (2) the holder valve could not be closed or exhausted. (3)、the block valve could not be reposition.	
8	Loose the pedal switch , then hanpiece still could not stop working.	<p>The pedal switch is a switch that controls the handpiece, the working air goes out from the unit box, then flows to the rub valve thru the pedal switch, the pedal switch looses, the valve core is reposition under the function of the spring, close the working air , then the handpiece stop working. This phenomenon is a problem of the pedal switch, here are two reasons:</p> <p>(1)、the spring with the reposition function on the valve core is invalidation or fall off(round pedal switch)。(2) interior rubber ring drinks water and expands, increasing the rub force between the rubber ring and valve core, then the valve core could not be reposition.</p>	Open the pedal switch, examine whether the valve core's reposition is normal, whether the spring is invalidation or fall off, press the middle valve core with hand, see whether the valve core works flexible. If not, maybe the spring or the rubber ring has problem, change either of them. Notice: turn off the air supply when you break the round pedal switch, so as to avoiding the valve core spring out.
9	When you use one handpiece, another hand piece is also working.	For the down mounted equipment, the air and water of the handpiece is accomplished by holder valve controlling the rub valve. For the top mounted equipment, (92T、93T) , then holder pole dials the travel switch, connect ( or close ) electromagnetism supply power , make the electromagnetism valve closed and exhaust (or aerate ) , the close and open of the rub valve and the air and water of the handpiece are accomplished by connecting or breaking off the air control. If you use one handpiece, while another handpiece is also working , that means the corresponding position of the rub valve is also open, and the control air of this position is closed and exhaust, for the down mounted unit ( seldom happen), maybe the holder valve is frowst, it is frequency	<p>(1) for the down mounted unit, mainly examine whether the corresponding holder valve could open and close normally.</p> <p>(2) for the top mounted unit, check whether there is some sound of leaking from the inner holder tray, if it is leaking, pressure is not enough, the rub valve could not close completely, examine whether the indicating light of the small electromagnetism valve is on, if yes, that is the problem of the travel switch , the travel switch of the holder pole of top mounted, should break off when it is under the reposition condition ( that is the press pole is under pressure ) , change the travel switch.</p> <p>(3) examine whether electromagnetism valve is damaged, change if it is.</p>

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		for the top mounted unit, maybe the corresponding travel switch is lasting closed, persist to supply power to electromagnetism valve; rub valve could not get closed, causing this phenomenon.	
10	The cooling water of the handpiece is spiccato.	If there is some air bubble in the cooling water, this phenomenon numerously happen to the unit which has the water and air regulator and the rub valve with the air control water valve and three way syringe regulator valve, here are two reasons: (1) the air control water of the rub valve flees to the water. (2) drive air or control water flees to the water.	(1) For the composite water and air regulator and the rub valve of syringe regulator, no need to use the air control valve of the rub valve, add one way air control water, connect the water pipe to the 4X6 orange windpipe if the rub valve, envelop the hole with screw. (2) For other rub valves, please refer to item 3
11	Three way syringe comes with water.	There is water included in the air, if use for long time, there will be hydrocele in the compressor pot, when the air goes in to the floor box, passing the air filter relief valve, it will separate the grease and amass in the plastic cup under the relief valve, when hydrocele dip in the filter core, the relief valve will lose the function of separating grease, then when you use syringe, it feels wet.	(1) take apart the floor box cover, examine whether the big relief cup has hydrocele, if yes, pour out the water (2) examine whether the compressor pot has hydrocele, if yes, drain the water.
12	Built in scaler shakes without stopping.	The power supply of the built in scaler is usually controlled by the air controlling the electricity switch, just like the built out pedal switch, when the air pipe for air control switch is charged, the core valve is out, it cause the switch closed, the power supply is connected, then the scaler work. when it stops, the windpipe of control switch must exhaust, the core valve is reposition, the switch breaks off, the scaler stop, the reason are as below (1) the air control switch could not break off. (2) the air from the windpipe could not exhaust, cause the valve core could not be reposition.	(1) examine whether their control switch valve could get reposition in time when the pedal switch looses, if not, examine the exhaust condition and the air control switch, if the valve has problem itself, open to clear and add some lube, if it is the problem of the exhaust, examine the rub valve or the holder valve.

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13	The chair and the backrest, one could move, one could not, press the main control board and step the electricity pedal switch, the control board sounds.	Maybe two reasons: (1) both the manual control and the pedal control have the sounds, that means the control signal passes the control board, if the output of the control board is normal, but the motor doesn't work, it is the problem of the motor; if the motor is normal, but the output of the control board is not normal, that is the control board's problem, and it also may be the problem of both of them (2) for the model under 92A, maybe one press key or pedal switch is closed, or a certain wire is short circuit, when you press the key, the chair doesn't work	The way of exclusion: (1) insert the plug of the normal motor to the not normal one, press the corresponding key, see whether the motor could work, then you could see whether the motor is normal or not. (2) Insert the wrong motor to the normal one, press the corresponding key to see whether the motor could work or not, if not, it should be the problem of the motor, if the motor works, that is the control board's problem. At last, change the accessories according to the corresponding malfunctions.
14	The chair and the backrest could not move any more when they reach a certain position. (but it is not on the limit position)	This malfunction mainly happens to the unit with the memory function. The possible reason is that the memory data of the control board is lost, causing the change of the memory limit position.	Go to the setting condition. Examine whether the chair and the backrest could move the limit position, if they could, reset the memory limit position, if not, change the control board.
15	The chair just could get down, but could not get up, the backrest is normal	This malfunction always happens to the equipment which is installed with the imported motor. Two possibilities: (1) there is a limit position switch installed on the side of the up and down motor, when the chair moves up until the holder presses the travel switch, the chair stops, at this moment, the chair just could get down, if the travel switch closes but not break off, nowhere is the chair, it could not move up any more. (2) the interior of the motor has problem.	Open the basic board cover and holder cover. There are two pieces of wires of the limit position switch on the power supply of the control board, take out these two wires, the problem could be solved. If the malfunction could not be excluded, please refer to item 13
16	The heater can not heat, or continue heating without stopping.	Press the heating key, the indicating light on, then the signals are passed on to the control board, the buzzer sounds, the control board will transmit the signals to the circuit board of the dental unit, then the indicating light of the circuit board turns on, meanwhile the relay are closed, the heater heats; when the	(1) Press the heating key to check whether the indicating light is on, whether the buzzer sounds, if the indicating light is not on and the buzzer doesn't sound, it is very probable that something is wrong with the keyboard or the main control wire (2) If the buzzer sounds, then open

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		<p>temperature reaches to about 40°C, the temperature controller disconnects, the relay disconnects, and the heater stops heating, when the heating key is not pressed to stop, the heater will remain heat preservation; when the temperature drop to certain degree, the temperature controller lead the relay to close, the heater heats again. If the heater can not heat, there 3 kinds of possibilities: (1) the signals have not yet passed on to the circuit board of the dental unit. (2)Something wrong with the circuit board of the dental unit. So it can not carry out corresponding movement. (3) The heater itself breaks down.</p>	<p>the unit box, check whether the light corresponding to the dental unit is on or not, if not, it is very probable that the dental unit wire breaks down</p> <p>(3)If the indicating light is on, but the relay doesn't move, we can take off the wire of temperature controller from the socket then shortly connect the two side insert feet, if the relay moves now, then the problem lies in the temperature controller, problem will be solve when change another one .If the heater still can not heat after changing temperature controllers, that means the heater breaks down, please change the heater. If shortly connect the two side insert feet, the relay still doesn't move, then the circuit board of the dental unit maybe break down, please change the circuit board</p>