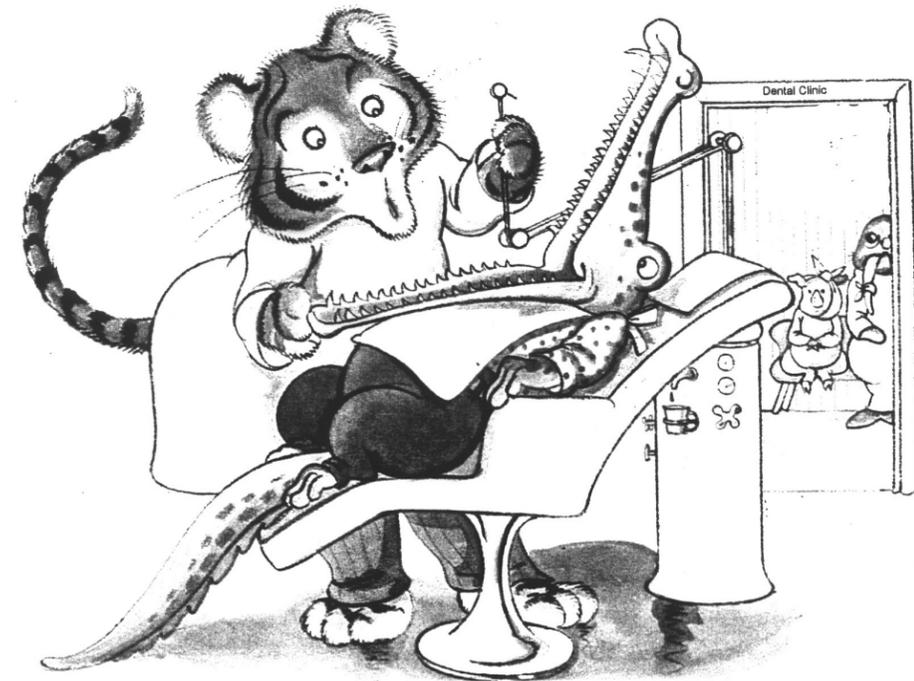

***Owner's Manual
for Dentalaire Prestige
Dental Stations***



DENTALAIRE™ 

Toll Free (800) 866-6881
Fax (714) 540-9947
www.dentalaireproducts.com
17150 Newhope Street, Suite 407, Fountain Valley, CA 92708

DENTALAIRE™ 

CAUTION: Never, ever use worn out tips. This will result in severe damage to the handpiece and could cost you a lot to get it repaired. Please routinely check the tips by using the chart provided, which shows expected tip wear. Remember, if you are having to constantly adjust the power setting up, the tips are probably worn and need to be replaced.

To clean the tips, do the following:

1. Brush off and rinse the tip with water.
2. It can be sterilized with a cold sterile solution or put in a ultrasonic cleaner.
3. Autoclave the tips at 275°F for no longer than 15 minutes.

Enjoy your new dental unit. Please call us at (800)866-6881 if you have any questions. We are here to help in any way we can.

- For High-speed, slowspeed polisher, blue metal airscaler, prophy angles and contra angles questions, ask for Debbie McCullah.
- For Technical Questions on dental machines, call Paul, Daniel and Wes.
- For all other questions, ask for Daniel Strange.

Please note: If you have any kind of damage, please notify Dentalaire right away. We have a two week window where we can make a claim if there are any damages to the dental station. After that, if you get a dental station from us, have it for a month, open it up and then find damages, we cannot get any kind of credit from our shipper. This makes it very difficult for all parties involved. Thanks for your help in this matter.

SELECTION OF HANDPIECES

Your dental station comes with a high-speed and a Low-speed handpiece. The high-speed is for drilling and sectioning of the teeth. The low speed is used mainly for polishing. It also can have an air scaler or a piezo scaler, which is used to scale (clean) the teeth.

OPERATION OF HANDPIECES

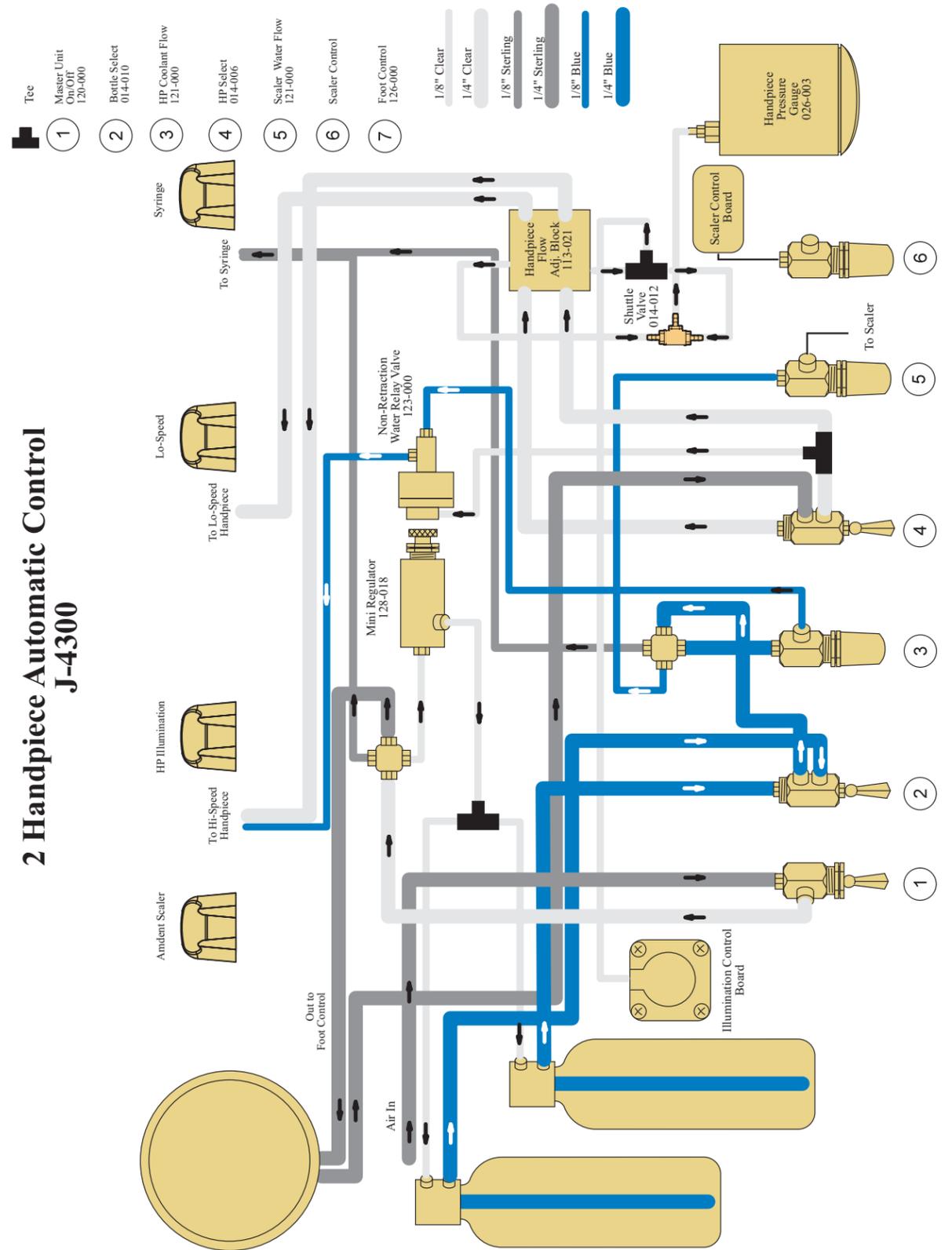
High-Speed Handpiece operates at pressures of 38 to 40 PSI and attains a speed of 350,000 to 400,000 RPM. The water mist helps to keep the handpiece motor and bur cool, as well as the patient's tooth cool while doing restorations, cutting or rotary prophy scaling procedures.

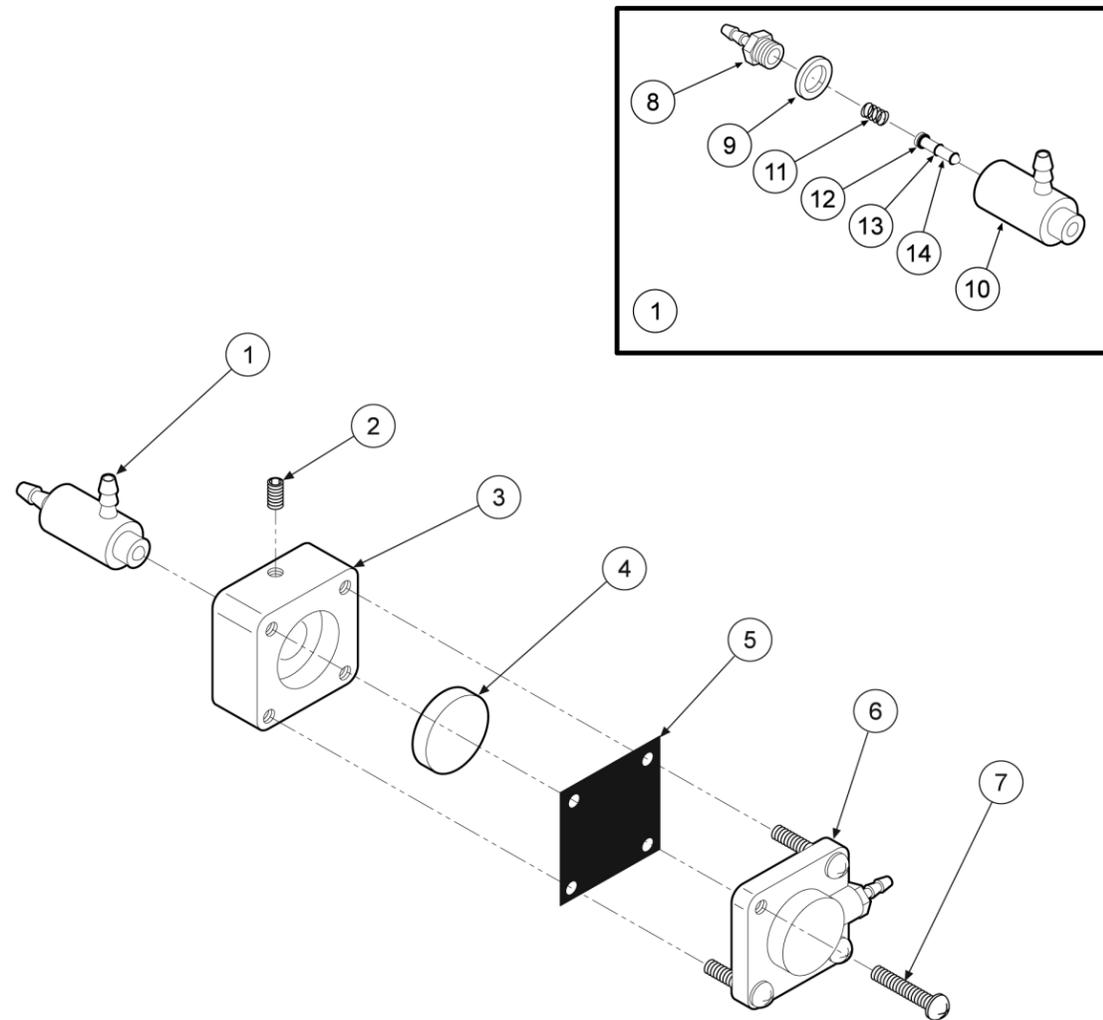
Constant preventive maintenance is essential in caring for handpieces. If they are not properly cleaned and lubricated, abrasives such as finely ground tooth, metal will cause excessive wear and undue vibration.

When inserting and removing burs from handpieces, use the bur tool by holding it between the thumb and forefinger. Slide the bur tool over the head of the handpiece. Pull the wrench knob away from the head, then push the knob back to engage the chuck. The square tip of the wrench must fit into the square hole inside of the handpiece head (this is the chuck). To remove the bur, rotate the wrench one full turn Counter Clockwise until the bur is free. To tighten, rotate the wrench one full turn Clockwise until the bur is secure.

Never overtighten the bur, as serious damage can result to the chuck and bur tool.

On units that have a push button bur changer, to insert the bur simply push your thumb on the back cap of the high speed handpiece to engage the chuck. You will feel a click, and then you insert the bur all the way as far as you can. To take out repeat the above step and then pull out the bur.





Non-Retraction Water Relay Valve



Push Button Bur

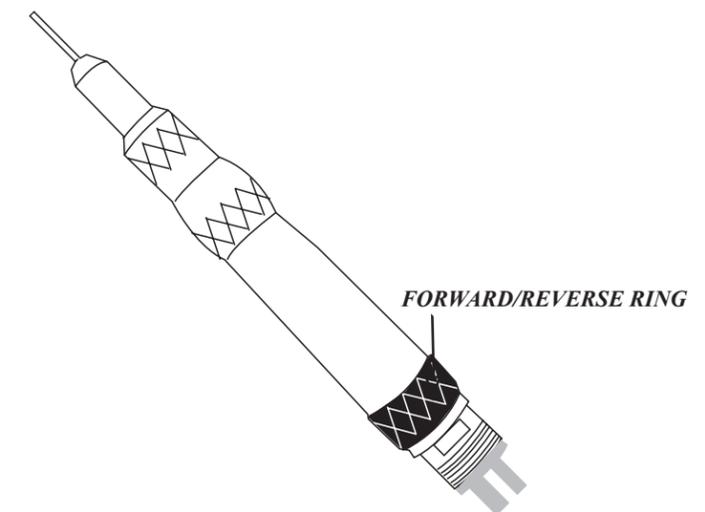


Bur Tool Changing

If you do not put the bur in all the way it will damage the chuck. You will then need to purchase a new turbine for your high speed handpiece.

Slow-Speed Handpiece operates at pressures of 40 PSI and generates speeds from a crawl to 5500 RPM depending on the pressure applied to the foot control. The slow speed should be placed on the right side of the delivery system (dry side), as no coolant is needed for the slow speed procedures.

As with the high speed handpiece, always read and follow manufacturer's instructions for operation, lubrication, cleaning, and sterilization for the slow speed motor and attachments.



*Slow-Speed Handpiece
Nose Portion Swivels 360° To Reduce Hand Fatigue*

To attach prophy angles, contra angles, cutting wheels or handpiece burs to the handpiece, simply turn lock ring to unlock position slide in prophy angle then turn to lock position. Please note: If the prophy angle ever gets stuck, once you have removed it you can squirt a little Once A Day Spray Lubricant into the bottom of the prophy angle. This should help resolve the problem.

CAUTION: Do not run slow-speed unless an angle or bur is installed as serious chuck damage will result.

CLEANING OF HIGH-SPEED AND SLOW-SPEED HANDPIECES

Before cleaning procedures the bur must be removed from the handpiece. The handpiece must be cleaned with a brush or wiped with alcohol after each patient.

Never use any type of chemicals to clean these handpieces. This includes Nolvasan, Roccal D, chemicals used in Ultrasonic cleaners. These cleaners will ruin the turbines and bearings in the handpieces.

STERILIZATION OF HIGH AND SLOW-SPEED HANDPIECES

1. The handpiece must be sterilized by autoclave for 15 minutes at 135°C (275°F).
Do not exceed 275°F when autoclaving.
2. Only use non chlorine products, and no chemical solutions.
3. Do not sterilize the high speed handpiece with the bur inserted. Also, never sterilize the low speed with the prophy angle attached.
4. Always lubricate the handpieces before you autoclave them, then once handpiece has returned to room temperature you should lubricate it again.

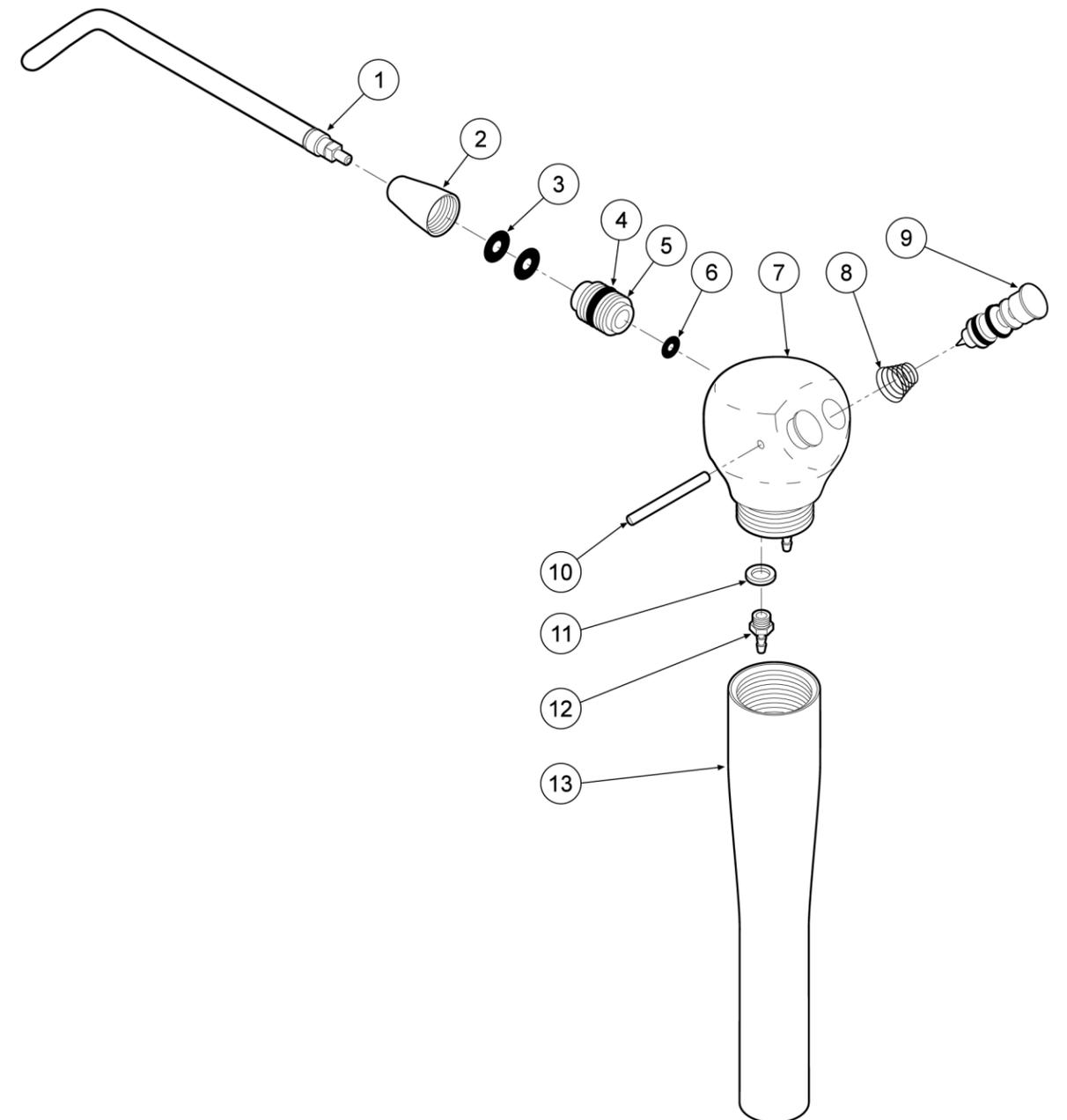
REPAIR AND REPLACING THE HIGH-SPEED CARTRIDGE

Only use the original replacement turbines, for total assurance of quality control and product life. The cartridge is a fragile instrument. Please call our service department if you have questions or need help in replacing this part.

DA400RC – Standard Type Turbine

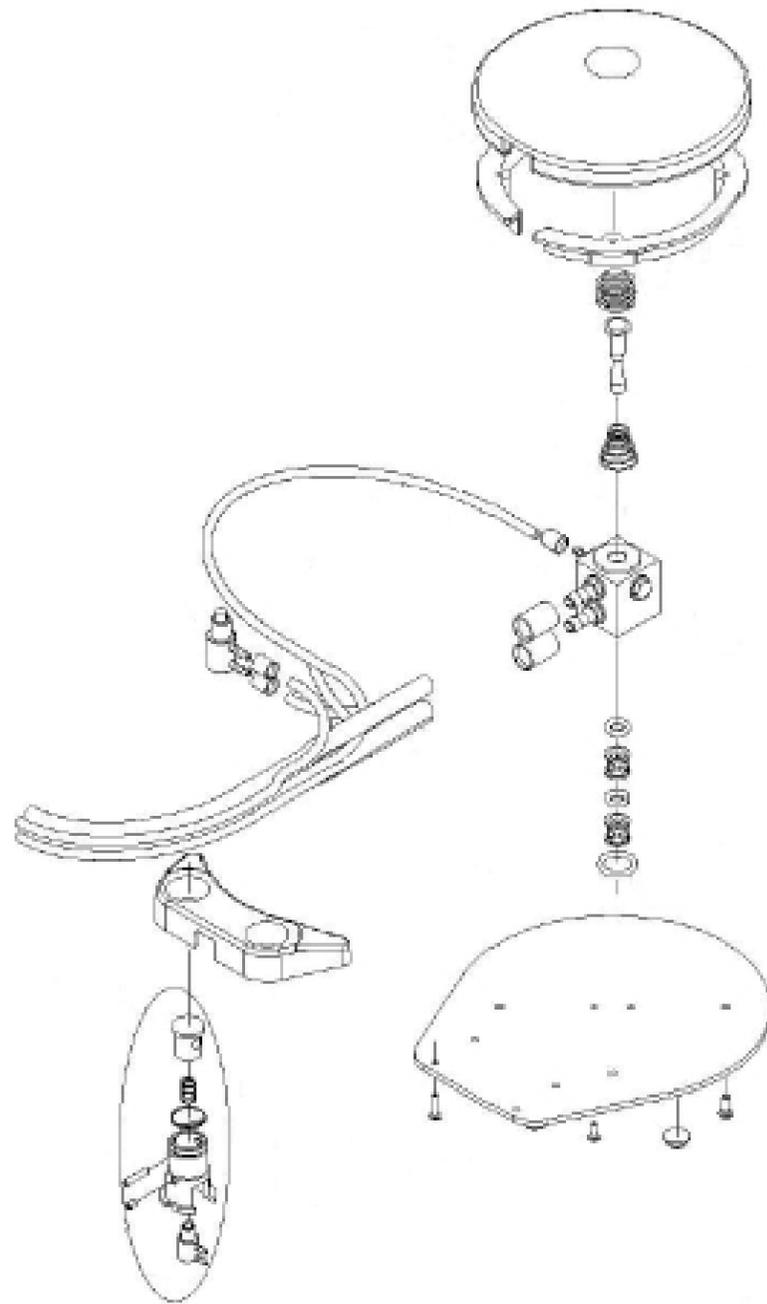
DA400RCA – Push Button Turbine w/Cap

DASKA485 – Push Button Turbine Only



3-Way IC Syringe

Foot Control with Chip-Air Button



WATER COOLANT

ADDING WATER TO DENTAL SYSTEM

Slowly remove water bottle from pressure manifold assembly and add distilled water only. Leave approximately two inches of air space at the top. Replace bottle, tighten until secure.

AIR / WATER SYRINGE

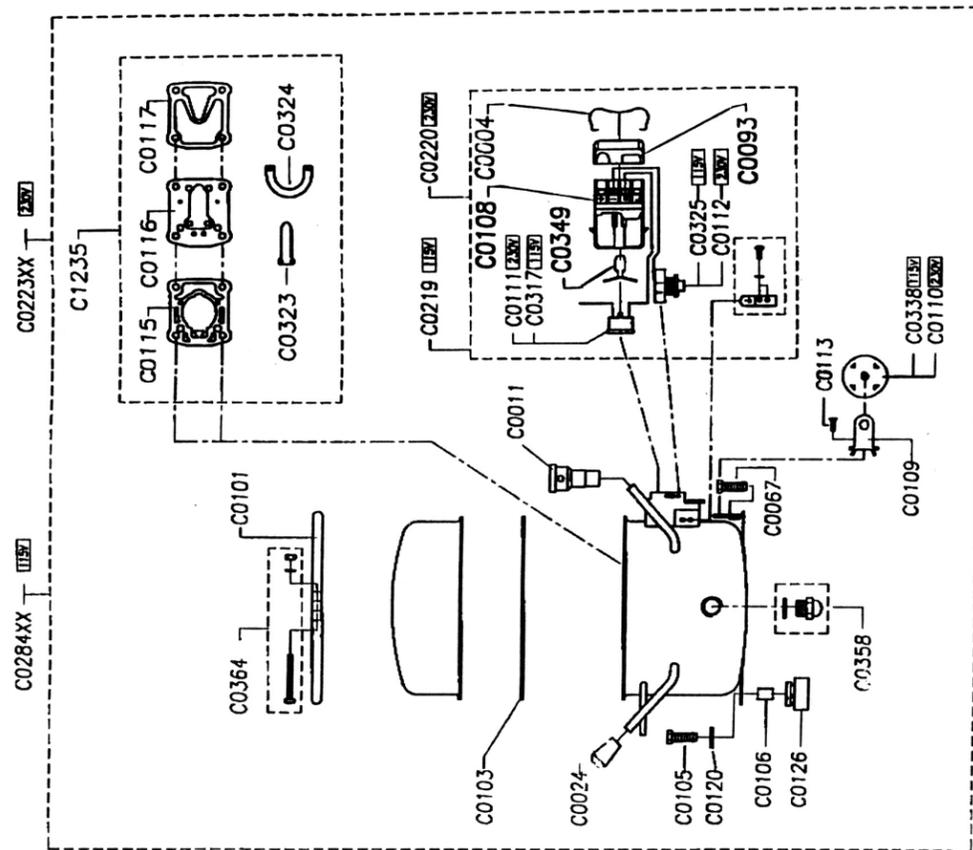
All of our dental stations come with an air / water syringe installed and ready to use. Depress the left button for water only. Depress the right button for air only. Depress both buttons to get a mist spray.

MAINTENANCE OF THE DENTALAIRE DENTAL SYSTEMS

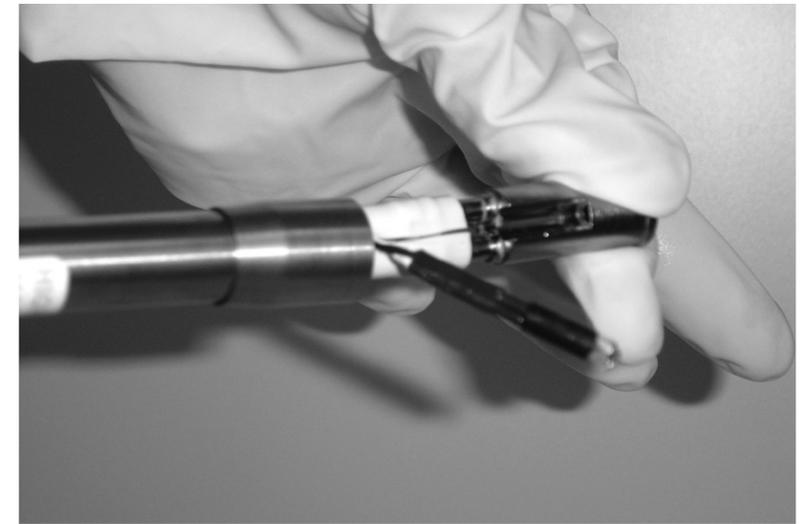
COMPRESSOR

Oil Change: Please change the oil in the compressor once a year. To change the oil, you want to start by taking the compressor out of the Cart Frame, unplugging the black power cord and main Air line then remove the white cover off of the compressor by removing the six bolts at the bottom. Now tilt the compressor away from you and unscrew the site glass indicator. Tip the compressor forward and pour the oil into a small bucket or coffee can. Next screw the site glass back on. Put the white cover back over the compressor and screw in the six bolts.

T2134A 230V - 50HZ
115V - 60HZ



DA400FOB - Fiber-optic Halogen Replacement Bulb



Changing bulb on High-speed Handpiece

TROUBLE SHOOTING GUIDE

I. NO COOLANT WATER

1. Water bottle empty.
2. Flow control knob is closed.
3. On / Off toggle is off.
4. High speed handpiece is in the low speed position
5. Faulty water relay valve.
6. Plugged coolant port in handpiece

II. COOLANT WATER DOES NOT SHUT OFF

1. Faulty water relay valve.
2. Water On / Off toggle left on

III. COOLANT WATER LEAKING FROM HANDPIECE

1. Missing or damaged handpiece connector gasket.
2. Faulty water relay valve.
3. Slow speed handpiece is in the high speed position.

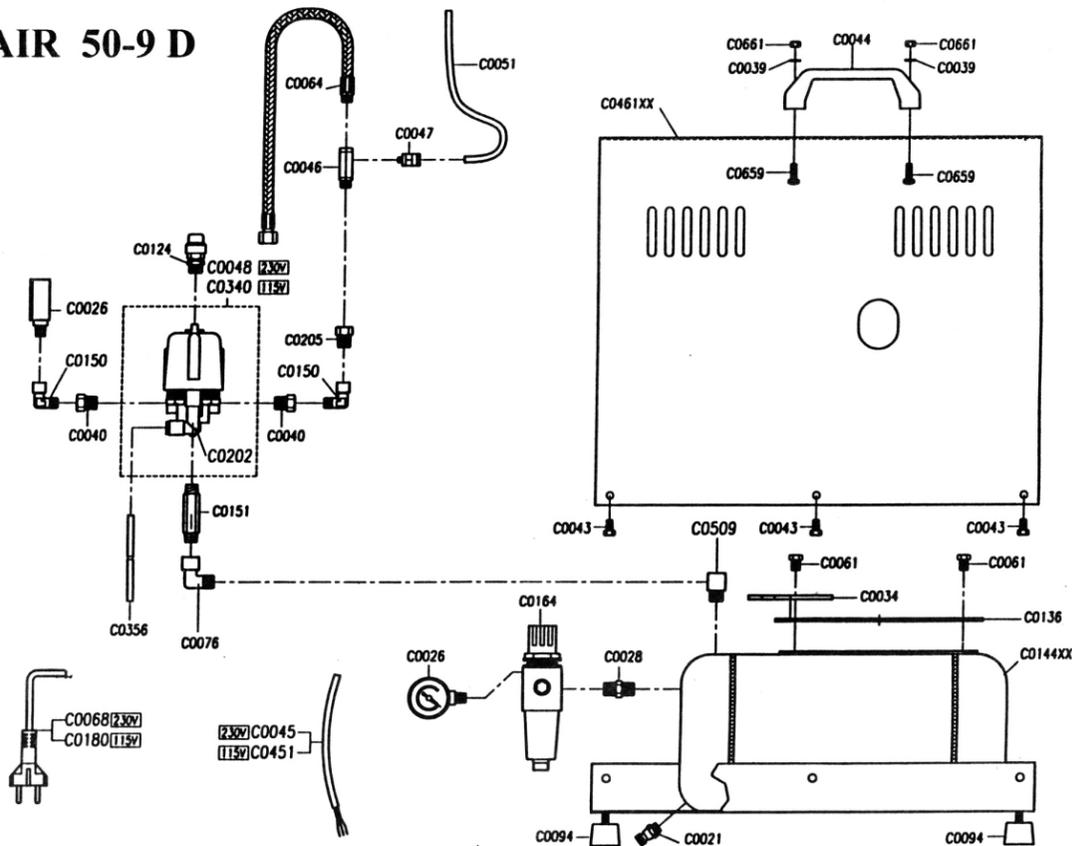
IV. MORE THAN ONE HANDPIECE RUNS AT THE SAME TIME

1. Handpieces are not positioned all the way down in the holders.
2. Faulty auto block diaphragm.

V. AIR / WATER SYRINGE PROBLEMS

1. Water drips from tip.
 - a) Faulty valve core
2. Button blow out.
 - a) Tip is plugged at the end.

SIL AIR 50-9 D



- b) Tip is not installed all the way into the into the Air Water Sprayer. (Loosen nut, press tip further into connector and tighten nut while holding the tip in)
 - c) Faulty o-ring in tip adapter.
3. Air or water leaks from buttons when in use.
 - a) Faulty buttons.
 4. Low air or water flow cont:
 - a) Improper regulator adjustment
 - b) Empty water bottle
 - c) Kinked supply tubing.
 - d) Plugged tubing.
 - e) Plugged syringe head

VI. FOOT CONTROL HISSES

1. Faulty foot control popped valve.
2. Foot control tubing connected backwards.

VII. HANDPIECE TUBING BLOWS OFF

1. Handpiece has been over pressurized.

VIII. COMPRESSOR WON'T TURN ON

1. Check power source. Check tank pressure (compressor will not turn on if tank is fully pressurized).
3. Faulty starting capacitor (replace).
4. Compressor is over-heated and the thermal safety switch is off. (Let unit cool and it will come on automatically, usually in 20 - 30 minutes).

IX. HANDPIECE LACKS POWER

1. Inadequate tank pressure.
2. Improper regulator pressure (reset regulator).
3. Improper individual handpiece pressure adjustment.
4. Faulty foot control.
5. Handpiece connector gasket is missing.
6. Directional selector ring is not rotated all the way into forward or reverse. (Slow speed handpiece only)
7. Faulty handpiece tubing.

X. COMPRESSOR RUNS, BUT WON'T PRESSURIZE FULLY

1. Plug is on the air inlet. Replace with air filter.
2. Compressor tank drain valve is leaking air.
3. Faulty check valve between compressor and filter tank.

XI. COMPRESSOR OVERHEATS

1. Air inlet is plugged.
2. Handpiece pressure is set too high.

3. Handpiece has been run for too long a time and the 50% duty cycle has been exceeded.

XII. UNIT IS PRESSURIZED BUT HANDPIECE DOES NOT RUN

1. Regulator pressure is low or off.
2. Supply tubing from regulator to control head is kinked.
3. Faulty foot control.
4. Handpiece directional ring is between forward and reverse (slow speed handpiece only).
5. Faulty handpiece turbine.

TROUBLE SHOOTING GUIDE FOR BUILT IN AMDENT PIEZO SCALER

I. THE SCALER WON'T RUN

1. Check main power , main fuse, On / Off Switch.

II. WEAK OR NO TIP VIBRATION

1. Increase the power control setting.
2. Check to see if tip is tightened properly.
3. The tip is worn out, replace with new tip.
4. Change to a new handpiece.
5. Faulty air switch.
6. Change back to the old handpiece and then replace the electronic part.
7. Replace both the handpiece and electronic part.

III. INSUFFICIENT WATER SPRAY

1. Turn the knob to full open position.
2. Check / replace water filter.
3. Check all water connections. Be sure there is no leakage or kinked tubing.
4. Remove the tip, if the water is dripping from the handpiece, replace the tip.
5. Check the delivery unit's control block that activates the water out to the scaler handpiece is working properly.

FOOT CONTROL TO ULTRASONIC "PIEZO" SCALER

This foot pedal has two buttons, one large and one small. The large button is for operating the high and low speed handpieces. The small button is for operating the piezo scaler only.

