Ultrapro® Tx Air Handpiece
Maintenance and Troubleshooting Guide

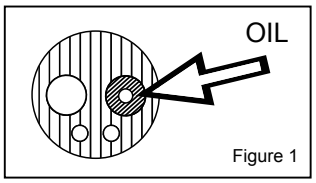
ultrapro® Tx air

Thank you for choosing the Ultrapro Tx Air Hygiene Handpiece from Ultradent

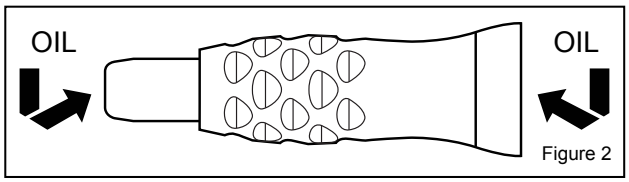
When properly cared for, your motor will provide years of quality service. Please follow these guidelines to ensure proper functioning over the life of your equipment.

Oil and Lubrication

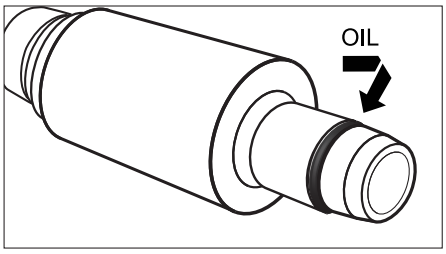
Lubrication of the motor and nose cone is necessary to keep all the moving parts running properly. Oil also helps flush debris out of the motor, helping to prevent buildup or wear and tear.



Lubricating Motor



Lubricating Nosecone



After sterilizing, place two drops of handpiece oil into the motor air tube (Fig. 1) and 1–2 drops of oil into both ends of the nosecone (Fig. 2). To properly disperse the oil, run the motor for several seconds.

Apply one drop of oil to the O-ring once per week to keep the nose cone swivelling smoothly.

*For complete sterilization and maintenance instructions, please refer to the product IFU.

Preventing Buildup

Motors coated with debris may not work consistently or may lose power when pressure is applied to the motor.

To prevent debris inside the motor:

1. Have your air compressor serviced regularly
2. Clean or replace air hoses regularly

Always check that your compressed air is filtered, dry, and free of oil.


Poorly maintained motor


Well-maintained motor

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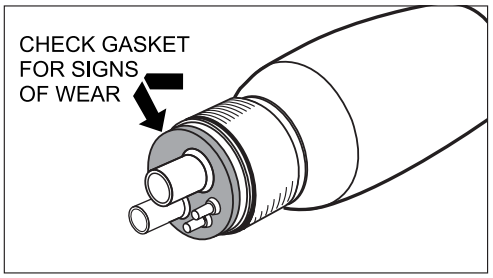
Troubleshooting

Handpiece will not start

- Inspect the air line connector to ensure it is properly threaded onto the motor.
- Ensure air line tubing is not crimped or damaged. Repair tubing if necessary.



Handpiece lacks power

- Make sure the motor gasket is in good condition. Replace if motor gasket shows signs of wear, is brittle, or cracked.
- Inspect the air line connector to ensure it is properly threaded onto the motor.
- Ensure air line tubing is not crimped or damaged. Repair tubing if necessary.
- Using an inline air pressure gauge, adjust the dental unit to a setting that allows 35–45 psi to enter the motor.

Handpiece skips

- Confirm the prophy angle is in good condition. Replace if defective.
- Make sure the motor gasket is in good condition. Replace if motor gasket shows signs of wear, is brittle, or cracked.

Air Pressure

Excessive air pressure can cause unnecessary wear on the motor, and insufficient air pressure can decrease the motor's effectiveness. The length of the air hose affects the amount of air pressure that actually reaches the motor from the air compressor.

1. Use an inline air pressure gauge to check the discrepancy between the amount of air pressure set on your dental unit or work station and the amount that reaches the motor.
2. Have the air pressure on the dental unit adjusted so that it's between 35–45 psi when it reaches the motor. By carefully adjusting your dental unit to a setting that will yield 35–45 psi entering the motor, you'll keep your motor working properly.

Note:
Every foot of air hose decreases the air pressure (psi) that actually reaches the motor. Each foot of straight air hose decreases the air pressure that reaches the motor by approximately 1 psi. Each foot of coiled air hose decreases the air pressure that reaches the motor by approximately 1.5 psi.

If you are still experiencing difficulties with your Ultrapro Tx Air Hygiene Handpiece, please contact Ultradent's Equipment and Repairs department at 801.553.4574.

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