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 Advanced Dental Systems® & Advanced Endodontic Systems®
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Technical Guideline

Adjusting Handpiece Pressure

TG-NP-0001

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WARNING! Only qualified personnel should service or repair this device. This device should only be serviced/repaired by a qualified service technician who is proficient in the repair of electromechanical dental equipment and who understands the complexities and risks of working within the device and observes proper safety precautions.



WARNING – Electrical Voltage. This system is powered by high voltage electricity. Like any other electrically powered device, if it is not used properly, it can cause electrical shock. Always plug the power cord into an electrical outlet with adequate fuse protection and proper grounding. In the event of a short circuit, grounding reduces the risk of shock by providing an escape wire for the electric current. Improper grounding of the unit can result in a risk of electric shock. Always unplug the unit before doing any service or repair to the unit.

IMPORTANT – Verify that the incoming air pressure from the compressor does not register above 80 psi.

INSTRUCTIONS

1. The adjustment knobs are labeled with abbreviations for the type of instrument installed. (Table 1)

Common Handpiece Pressure Settings*		
ELS EHLS US	Electric Low Speed/Rotary Electric High Speed Ultrasonic	80 psi or less
FHS HS LS	Fiber Optic High Speed High Speed Low Speed	45-55 psi
AS-E A/W	Endo Air Syringe Air/Water Syringe	10 psi or less Direct air from drive

**Always refer to the handpiece manufacturer's specifications.*

Table 1

2. A handpiece must be connected to the tubing in order to register pressure on the gauge. Remove the handpiece from its holder. (Fig. 1)

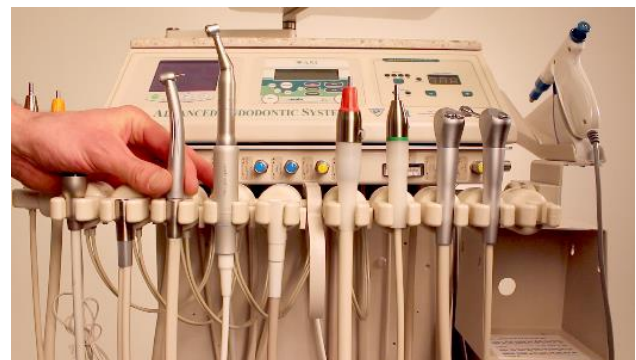


Fig. 1

- Depress the foot control and read the handpiece pressure gauge on the unit. (Fig. 2)



Fig. 2

- Depending on the model of the unit, adjustment stems will either be located underneath the instrument panel or inside the system in the center of the bottom panel. For units with internal adjustment stems, follow the same instructions for adjusting the handpiece drive air pressure. For instructions for how to open the cover of the unit, please refer to TG-NP-0002, "Opening the Cover of the Unit".

Rotate the adjustment knob clockwise to decrease, counter-clockwise to increase the air pressure, until the desired range is achieved, as specified by the handpiece manufacturer.



Fig. 3
External Adjustment Stems

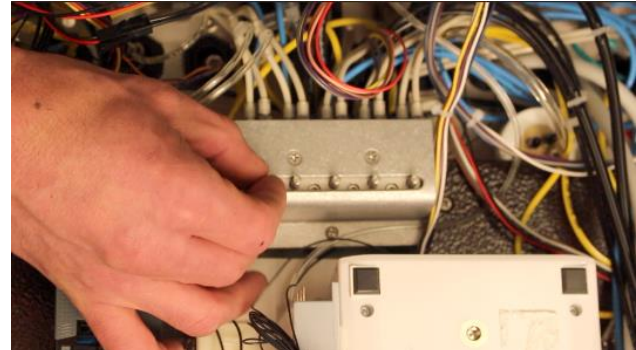


Fig. 4
Internal Adjustment Stems

ROTARY ELECTRIC MOTORS AND ULTRASONIC HANDPIECES

- Adjusting screws for electric instruments should be left in a fully open position to allow free air flow to pressurize and exhaust off the air/electric switches.



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ENDO SYRINGE

- For an optional Endo Syringe, the adjustment knob and round gauge are located on the side of the unit. The pressure on the Endo Syringe is usually set to a maximum of 5 to 10 psi.



Fig. 5
Endo Gauge and Knob

- Remove the syringe from the holder and press the button.
- Rotate the adjustment knob clockwise to increase pressure; and counter-clockwise to decrease.