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**Operating Instructions for the
Alternative 4145 Cart System**

Control Unit and Cart Frame

Operation and Features

The **handpiece selector toggle** is in the center of the control panel. Handpiece number two is the high speed, water cooled handpiece.

The **drive air pressure gauge** is on the left side of the panel.

The **water coolant on-off toggle** is on the far right side of the control panel.

The **water coolant flow control knob** is on the underside of the control unit, just below the on-off toggle.

Adjustment screws for drive air pressure are on the underside of the unit, just below the handpiece selector toggle.

Syringe

Tubing connections for the standard syringe have been made inside the control unit. The syringe is packed in a shipping envelope, with instructions and a repair kit attached. Place the syringe in the far left holder on the tool bar.

Foot Control

Pressure to any part of the foot control disc provides drive air to the selected handpiece. Air coolant is also activated by stepping on the foot control disc.

Cleaning and Maintenance

Note

Do not use powdered cleansers, scouring pads, or abrasive scrubbers on any of the finished metal surfaces in this unit (for example, the syringe, the foot control disc, or the cart frame). Sodium Hypochlorite will also damage these surfaces.

Control Unit and Cart Frame

The control panel, cart top and other control unit surfaces can be cleaned with most commonly available surface disinfectants. Do not use Sodium Hypochlorite, or any cleansers containing large concentrations of alcohol. These may cause discoloration on the painted and finished metal surfaces of the control head and cart frame. Do not use abrasives on the cart frame. They may damage the metal finish.

System Flush

The Center for Disease Control and the American Dental Association can provide recommendations on when to flush your system, and for how long.

Adjustments

Handpiece Holders

Each handpiece holder is attached to the tool bar with two set screws, located on the underside of the holder. To reposition a holder, loosen the set screws, move the holder to the desired location, and retighten the set screws. You will need a 3/32" hex key.

Cart

The height of the control unit can be adjusted. Loosen the knob on the upright post of the cart frame. Raise or lower the control unit as desired, and retighten the knob firmly. **Make sure the weight of the control unit is supported when you loosen the knob on the post.**

Note

All of the following adjustments should be made with a burr in the handpiece. Running a handpiece without a burr installed can damage the handpiece.

Drive Air Pressure

You will need the 3/32" ball driver provided with the syringe kit to make this adjustment.

To locate the drive air adjustment screws, trace the handpiece tubings from the handpiece to their connection at the control head. The adjustment screws are directly in front of the tubing connections.

Install a burr in the number two handpiece. Turn the water coolant toggle to the off position, and the handpiece selector to the number two position.

Press on the foot control disc until the handpiece is running at maximum speed.

Using the 3/32" ball driver, turn the adjustment screw for the number two handpiece counterclockwise until the pressure gauge reads a little more than the recommended pressure. Then turn the screw clockwise until the gauge indicates the recommended pressure. Repeat this procedure for the number one handpiece.

Water Coolant

Turn the handpiece selector toggle to the number two position. Turn the water coolant toggle to the on position (toward the blue dot).

Install a burr in the number two handpiece.

Press on the foot control until the handpiece is running at half speed. Turn the water coolant flow control knob to provide a fine mist of water around the burr. Very little water coolant is required.