

Instructions for Use

Decade[®] 2561/2562 Cart

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Regulatory Information

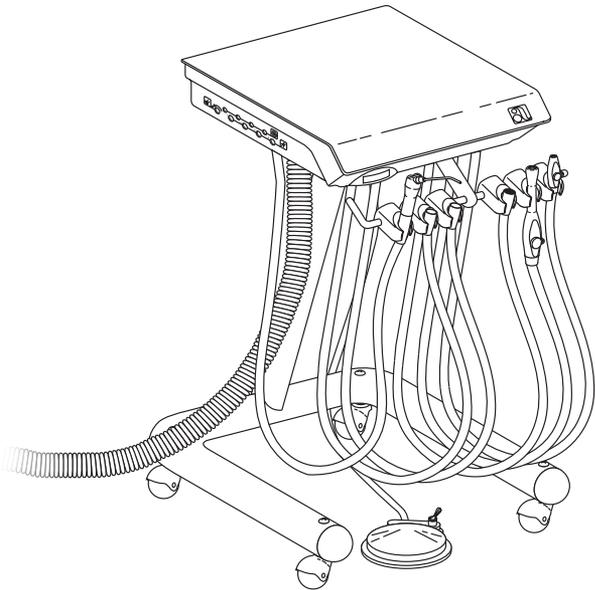
Regulatory information mandated by agency requirements is provided in the *Regulatory Information, Specifications, and Warranty* document (p/n 86.0221.00), which is available in the Document Library at www.a-dec.com.

Product Service

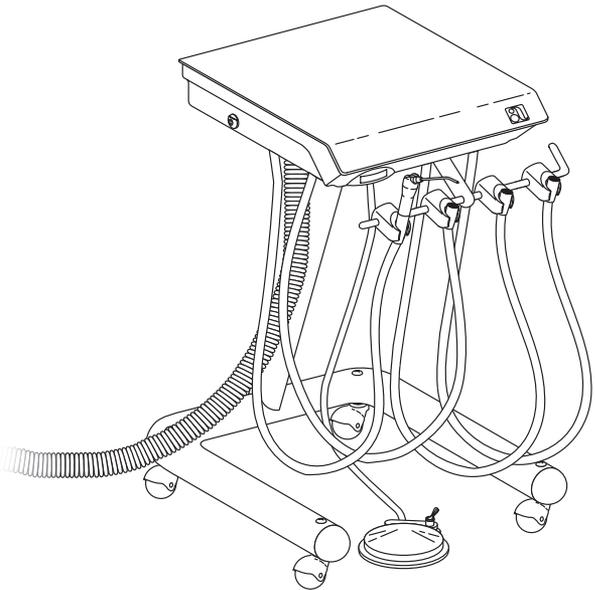
Product service is available through your local authorized A-dec dealer. For service information, or to locate an authorized dealer, contact A-dec at 1.800.547.1883 in the USA and Canada or 1.503.538.7478 worldwide, or visit www.a-dec.com.

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Decade 2561 Duo Cart



Decade 2562 Doctor's Cart

About Your Decade 2561/2562 Cart

Your Decade 2561 or 2562 Cart is built around A-dec's Century Plus® control system.

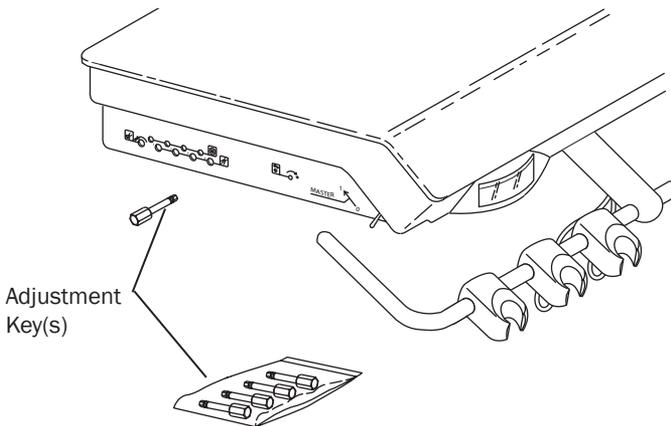
Handpiece activation is automatic. When you lift a handpiece from its holder, the handpiece becomes active and will run when you press on the foot control disc or move the lever on the lever foot control (see page 2).

With the exception of the drive air pressure gauge, all controls and indicators are located on the sides and bottom panel of the unit.

Autoclavable Adjustment Keys

Adjustment keys are provided for making adjustments to the recessed controls. You can order additional or replacement keys from your authorized A-dec dealer, or use a 1/8" hex key.

Figure 1. Autoclavable Adjustment Keys

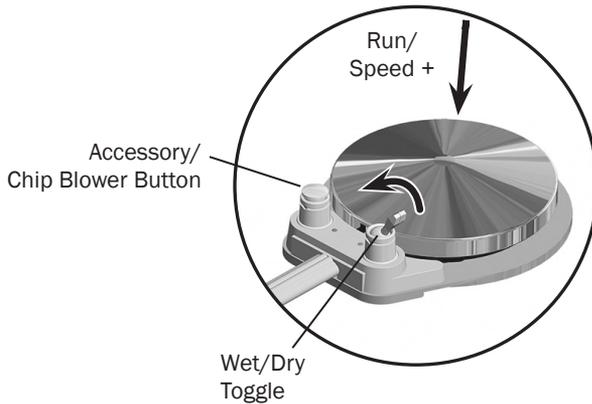


Foot Control

The foot control modulates drive air to the active handpiece and provides an air signal that activates the coolant air and coolant water flow.

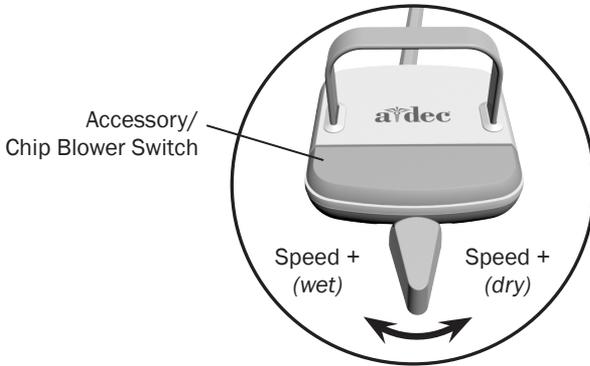
To activate a handpiece, lift it from the holder. Use the foot control to perform the desired handpiece operation.

Figure 2. Disc Foot Control



Operation	Procedure
Run a handpiece.	Press on the disc. Push down to increase speed.
Run a handpiece with or without water coolant.	Move the wet/dry toggle toward the blue dot for wet operation or away from the blue dot for dry operation. Then press on the disc.
Run the optional accessory or chip blower.	Press the accessory/chip blower button.*
Operate the intraoral camera.	Press on the disc to capture an image.*

* Contact your authorized A-dec dealer for questions about the operation or configuration of your integrated A-dec accessories.

Figure 3. Lever Foot Control

Operation	Procedure
Run a handpiece with water coolant.	Move the lever to the left. Move farther to increase speed.
Run a handpiece without water coolant.	Move the lever to the right. Move farther to increase speed.
Run the optional accessory or chip blower.	Press the accessory/chip blower switch.*
Operate the intraoral camera.	Move the lever to the left or right to capture an image.*

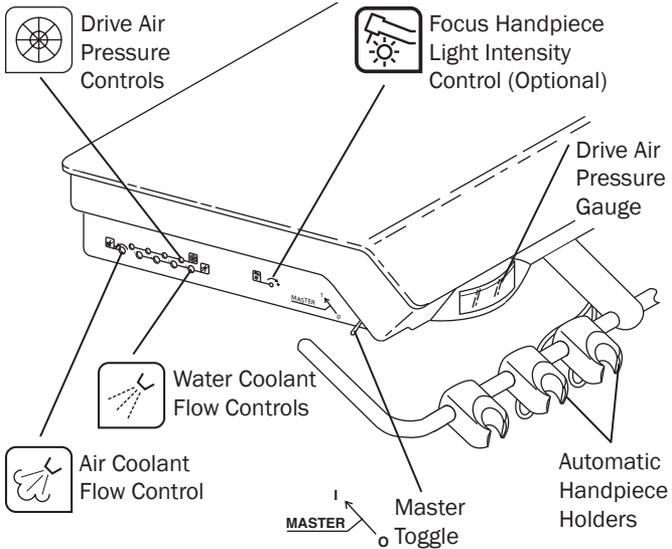
* Contact your authorized A-dec dealer for questions about the operation or configuration of your integrated A-dec accessories.



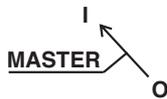
NOTE The lever foot control function can be reversed by a technician (change left direction to dry, right direction to wet). For more details, contact your authorized A-dec dealer.

Handpiece Controls

Figure 4. Handpiece Controls



Master Toggle



Use the master toggle to turn on the power, water, and air.



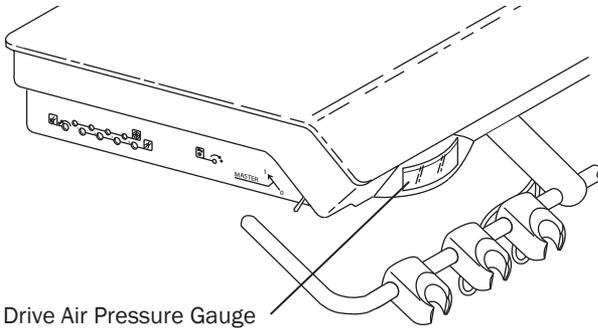
CAUTION The master toggle should be in the off (O) position whenever the unit is not in use. This will prevent the possibility of water damage should a leak occur while the unit is unattended.

Making sure the unit is off will also prevent the possibility of self-activation and the resulting burn-out of your electrical accessories.

Drive Air Pressure Gauge

The drive air pressure gauge indicates, in psi and kg/cm², the drive air pressure to the active handpiece. See page 7.

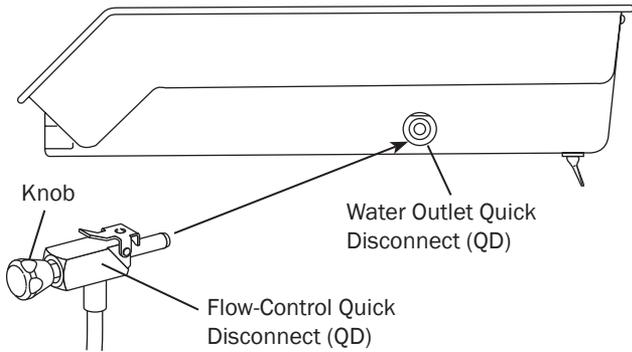
Figure 5. Drive Air Pressure Gauge



Water Outlet with Flow Control

The water outlet with flow control provides water for hydrocolloid tubing. The outlet accepts A-dec's quick-disconnect (QD) flow-control. Flow is controlled by a knob on the QD itself. Counterclockwise increases the flow.

Figure 6. Water Outlet with Flow Control



Drive Air Pressure Controls



Use the drive air pressure controls to adjust the pressure to each handpiece. See Figure 4 on page 4.

You will need a 3/32" hex key to complete this adjustment.

1. Install a bur in the handpiece.
2. Locate the drive air gauge on the front of the control head. See Figure 5 on page 5.
3. Turn the drive air control clockwise until the valve seats.
4. Lift the handpiece from the holder and do one of the following:
 - On a disc foot control: flip the wet/dry toggle to dry, and press the disc all the way down.
 - On a lever foot control: move the lever all the way to the right.
5. While running the handpiece, watch the drive air gauge and adjust the handpiece dynamic drive air pressure to meet the manufacturer's specifications. Counterclockwise increases the pressure.



CAUTION See your handpiece documentation for the drive air pressure specification. Exceeding manufacturer's recommendations increases the risk of damage and may significantly decrease the life of your handpiece components.



NOTE Do not turn the control counterclockwise beyond the point where the drive air pressure no longer increases. The control adjustment screw may come completely out of the unit.

Coolant Water Flow Controls



Use the coolant water flow controls to adjust water flow to each handpiece.

You will need an adjustment key or a 1/8" hex key to complete this adjustment. See Figure 1 on page 1.

1. Install a bur in the handpiece.
2. Locate the coolant water flow controls. See Figure 4 on page 4.
3. Insert an adjustment key, or a 1/8" hex key, into the coolant water flow control for the handpiece being adjusted.
4. Hold the handpiece over a receptacle. Be sure to hold the handpiece so that the water will be directed away from you and into the receptacle.
5. Do one of the following:
 - On a disc foot control: flip the wet/dry toggle to water, and press the disc all the way down.
 - On a lever foot control: move the lever all the way to the left.
6. Adjust the coolant water flow to fit your needs. Clockwise decreases the flow.



CAUTION When performing this procedure, do not attempt to completely shut off the water flow. The adjustment controls are not designed to completely shut off flow and can damage the control block if you apply too much force.

7. Adjust the coolant water for each handpiece.

Coolant Air Flow Control



Use the coolant air flow control to simultaneously adjust air flow to all handpieces.

You will need an adjustment key or a 1/8" hex key to complete this adjustment. See Figure 1 on page 1.

1. Install a bur in the handpiece.
2. Locate the coolant air control. See Figure 4 on page 4.
3. Insert an adjustment key, or a 1/8" hex key, into the coolant air flow control.
4. Lift the handpiece from the holder and do one of the following:
 - On a disc foot control: flip the wet/dry toggle to dry, and press the disc all the way down.
 - On a lever foot control: move the lever all the way to the right.
5. Adjust the coolant air flow to fit your needs. A strong flow of air is recommended. Counterclockwise increases the flow.



CAUTION When performing this procedure, do not attempt to completely shut off the air flow. The adjustment control is not designed to completely shut off flow and can damage the control block if you apply too much force.

Handpiece Tubing Flush



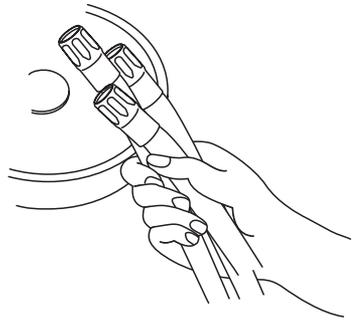
Use the flush control to move a high volume of water through the handpiece tubing.

1. Disconnect the handpieces.
2. Hold all of the handpiece tubing that uses water coolant over a sink, cuspidor bowl, or basin.

Figure 7. Handpiece Tubing Flush



Flush Toggle



3. Hold the flush toggle down for 20-30 seconds.



NOTE Discharge all tubing air and water lines for 20–30 seconds after each patient.

4. Replace the tubing in their holders. Be careful to replace each tubing in the proper holder.

Handpiece Holder Tension Adjustment and Positioning

The holder tension was set at the factory. However, if a holder is difficult to reposition or repositions too easily, the holder tension can be adjusted.

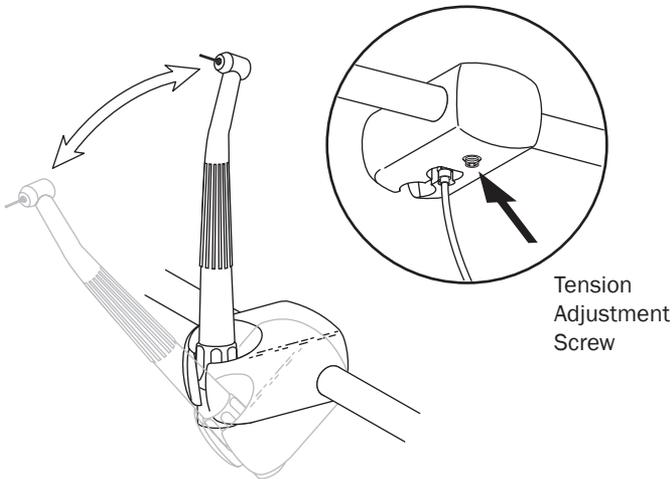
To adjust the holder tension:

- Use a 1/8" hex key to loosen or tighten the tension adjustment screw.

To reposition a holder:

- Rotate the holder to the desired angle.

Figure 8. Individual Handpiece Holder

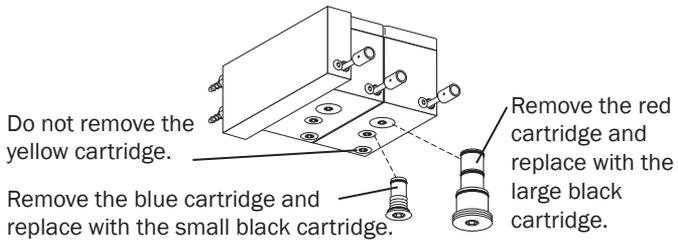


Handpiece Dry Block Conversion

Your handpiece delivery system has one to four handpiece control blocks with coolant water to the handpiece. If a control block does not have coolant water, a dry block is required, and a conversion kit is included with your system.

1. Move the master toggle to the off position. Bleed the system water by operating the syringe and flushing the handpiece tubing.
2. Locate the handpiece control block position that will be the dry block. Access the control blocks underneath the control head.
3. Use a 3/32" hex key to remove the large red cartridge from the control block. Install the large black cartridge from the dry block conversion kit into the control block.

Figure 9. Handpiece Dry Block Conversion



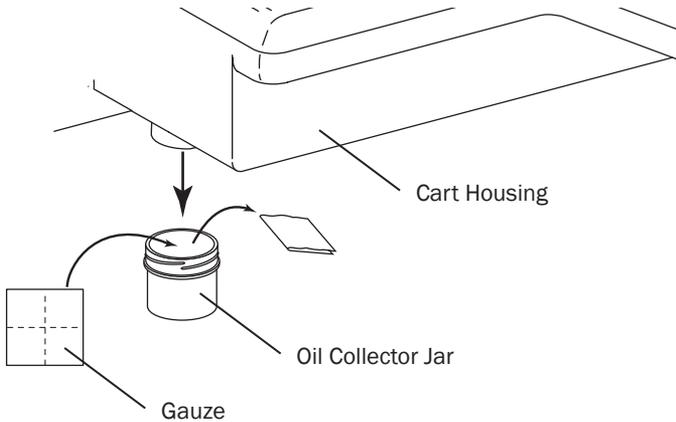
4. Use a 3/32" hex key to remove the small blue cartridge from the same control block. Install the small black cartridge from the dry block conversion kit into the control block.
5. Turn your handpiece control system on, and then check the function of the dry block handpiece conversion. A small amount of residual water may be discharged from the handpiece tubing but should dry after a few seconds.

Oil Collector

The oil collector gauze on your unit needs to be changed once a week for normal usage. Change it more often for heavier use.

1. Remove the oil collector jar from the unit and discard the old gauze.
2. Fold a new two-inch square gauze pad into quarters and place it against the spring inside the jar.
3. Screw the oil collector jar onto the unit. Do not overtighten.

Figure 10. Oil Collector



Care Instructions

For recommended asepsis instructions and self-contained water system care, see the following A-dec documentation:

A-dec Equipment Asepsis Guide p/n 85.0696.00

A-dec Self-Contained Water System

Instructions for Use p/n 86.0609.00

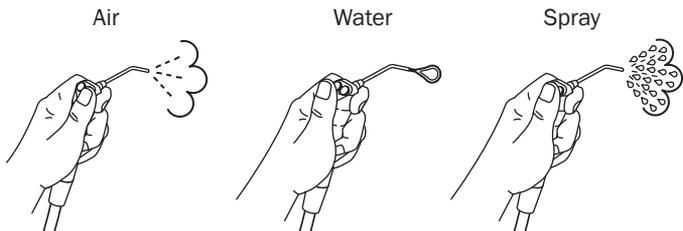
Waterline Maintenance Guide p/n 85.0983.00

Autoclavable Syringe

To operate the syringe:

- Move the master on/off toggle to the on position.
- Air – Press the right button down.
- Water – Press the left button down.
- Spray – Press both buttons down.

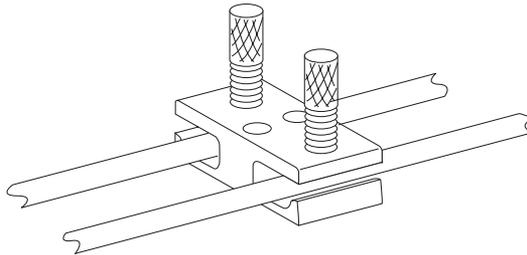
Figure 11. Autoclavable Syringe



Syringe Flow Controls

The syringe flow controls are located underneath the cart top. Flow is controlled by adjustable air and water flow restrictors (tubing pinch valves) on the syringe tubing under the cart top.

Figure 12. Adjusting Syringe Flow



For detailed instructions on syringe usage, flow adjustment, and maintenance, see the *A-dec Syringes Instructions for Use* (p/n 85.0680.00).

Assistant's Instrumentation (2561 Only)

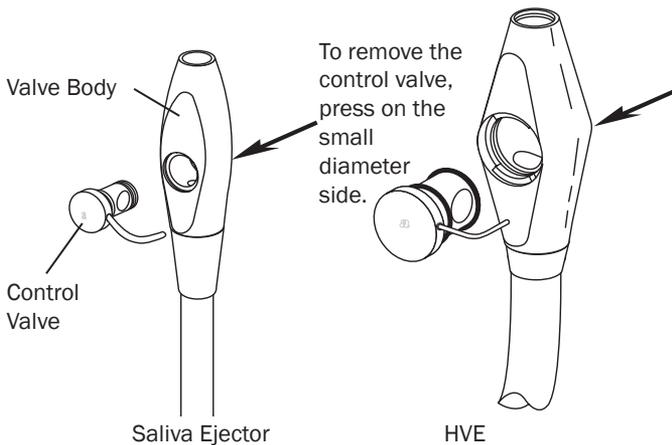
To operate the HVE and saliva ejector, turn the control valve.

To convert the HVE and saliva ejector for left-handed operation, push the control valve out of the valve body, rotate the control valve 180°, and push it back into place.



NOTE Be sure to reinstall the valve on the same side of the valve body. Otherwise, the HVE or saliva ejector will not operate properly.

Figure 13. Right- to Left-Hand Conversion

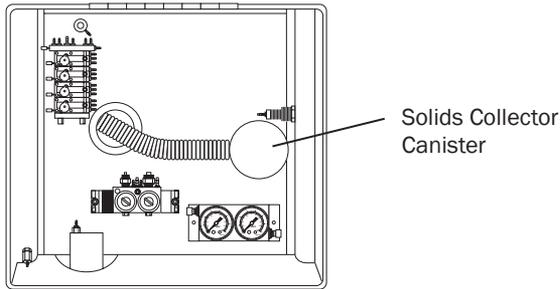


See the *A-dec Assistant's Instrumentation Instructions for Use* (p/n 85.2610.00) for complete instructions on cleaning your HVE and saliva ejector.

Solids Collector (2561 Only)

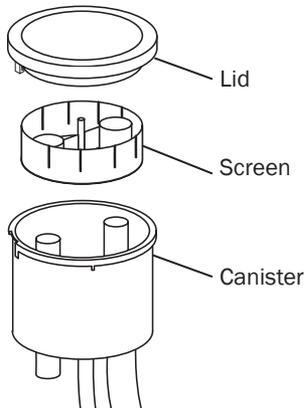
The solids collector canister, located inside the cart, collects solids and prevents them from entering the central vacuum system. To remove the canister lid, turn off the vacuum, and then twist the lid counterclockwise and lift it off.

Figure 14. Solids Collector



At least once per week, remove and clean the solids collector screen. This is necessary to ensure proper suction from the central vacuum.

Figure 15. Cleaning the Solids Collector



See the *A-dec Assistant's Instrumentation Instructions for Use* (p/n 85.2610.00) for complete solids collector maintenance instructions.

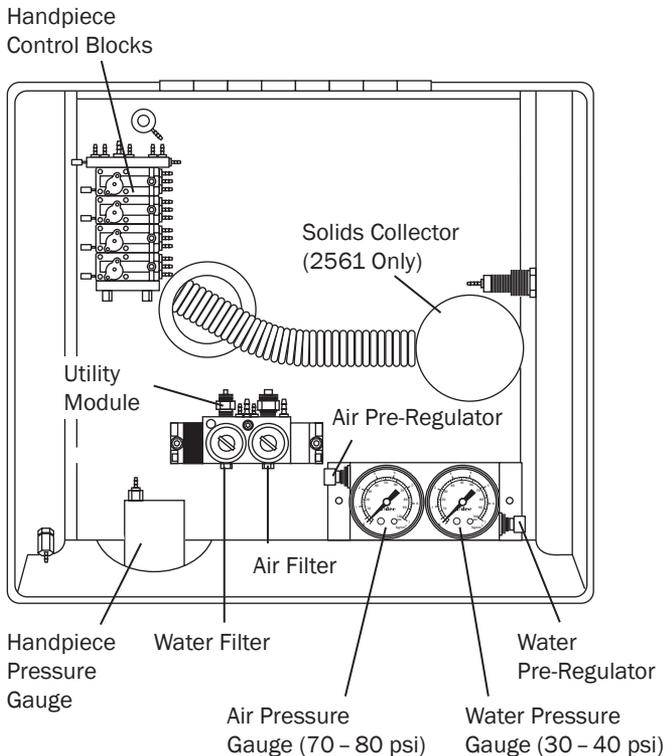
Utility Controls

The system utility controls are located under the cart top.

The pre-regulator controls the air and water pressure in the unit. See “System Air and Water Pressure Adjustments” on page 18.

The air and water filters prevent solids from entering the unit. See “Air and Water Filter Elements” on page 22.

Figure 16. In-Cart Utilities



System Air and Water Pressure Adjustments

The air and water manual shutoff valves, as well as any vacuum or drain outlets, are located in the floor box mounted over the office plumbing on the floor or wall.

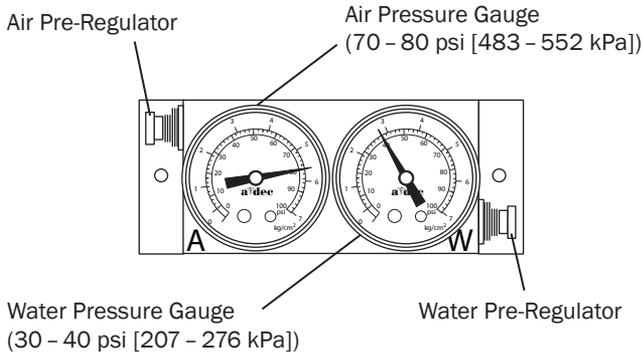
Before making any adjustments to components in the cart top, verify that the manual shutoff valves in the floor box are all the way open (turned fully counterclockwise) and that the compressor is on and functioning properly.

The air compressor should maintain 80–120 psi (552–690 kPa) in the tank. If it doesn't, refer to the instructions for the compressor.

1. Be sure that the manual shutoff valves are fully open (counterclockwise).
2. Move the master toggle to the on position.
3. Check the pressure gauges inside the cart housing. See "Utility Controls" on page 17.
 - Air pressure should be 70–80 psi (483–552 kPa).
 - Water pressure should be 35–40 psi (241–276 kPa).
4. While watching the gauges, operate the syringe. If the system air pressure drops by more than 15 psi (103 kPa), or water pressure by more than 10 psi (69 kPa), check for clogged filters.

- If adjustment of either the air or water pressure is required, turn the appropriate pre-regulator knob. Clockwise increases pressure.

Figure 17. Air and Water Pressure Adjustment



- Test the unit by operating the syringe and handpieces for several seconds. Make sure air and water pressure are maintained.



NOTE When decreasing system air or water pressure, you will not see the air or water pressure gauge in the utility center change until you relieve pressure from the system. Activate the syringe for a few seconds, and then check the gauge. Repeat this process each time you make an adjustment to decrease pressure.

Clean / Maintain

Barrier Protection

A-dec recommends barrier protection for all applicable touch and transfer surfaces. Touch surfaces are areas that come into contact with hands and become potential cross-contamination points during dental procedures. Transfer surfaces are areas that come into contact with instruments and other inanimate objects.

In the USA, barriers must be produced under the Current Good Manufacturing Practice (CGMP) as specified by the U.S. Food and Drug Administration (USFDA). For regions outside the USA, refer to the medical device regulations specific to your location.



NOTE For proper use and disposal of barriers, see the instructions provided by the barrier manufacturer.



IMPORTANT For recommendations on cleaning and chemical disinfection of touch and transfer surfaces (where barrier protection is not applicable or when barriers are compromised), please see the *A-dec Equipment Asepsis Guide* (p/n 85.0696.00).

Waterline Maintenance

A-dec recommends that you perform a shock treatment on the dental unit waterlines before you use the system for the first time.

For on-going waterline maintenance, A-dec recommends a three-part protocol: continuous use of A-dec ICX® waterline treatment tablets, regular dental unit water monitoring, and shock treatment.



IMPORTANT For complete details on how to maintain good water quality in your system, see the instructions for use provided with ICX and your self-contained water bottle:

- A-dec ICX*p/n 86.0613.00
- A-dec Self-Contained Water System*.....p/n 86.0609.00
- Waterline Maintenance Guide*p/n 85.0983.00

Air and Water Filter Elements

Air and water pass through separate filters in the utility module before entering the regulator. A filter must be replaced when it becomes sufficiently clogged, restricting flow to the regulator. To determine the location of your system utility module, see “Utility Controls” on page 17.

Check the Air Filter

1. Move the master toggle to the on position and lift the cart top.
2. While watching the air pressure gauge in the cart top, press the syringe air button.
3. If the air pressure indicated by the gauge drops by more than 15 psi (103 kPa), the filter element is clogged and must be replaced.

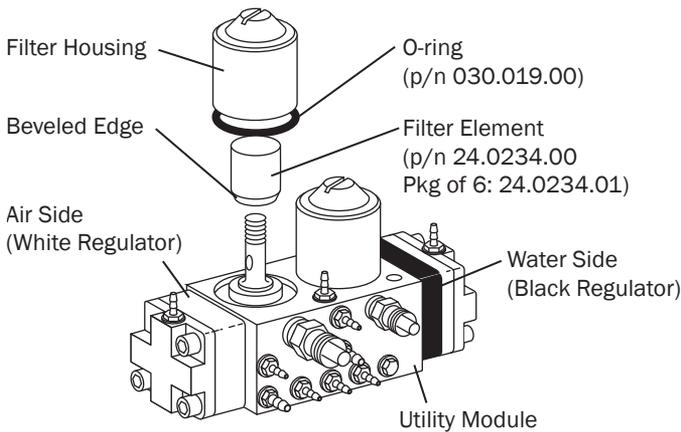
Check the Water Filter

1. Move the master toggle to the on position and lift the cart top.
2. While watching the water pressure gauge in the cart top, press the syringe water button.
3. If the water pressure indicated by the gauge drops by more than 10 psi (69 kPa), the filter element is clogged and must be replaced.

Replace a Filter Element

1. Move the master toggle to the off position, and then close the manual shutoff valves in the floor box.
2. Bleed the system of air and water pressure by operating the syringe buttons until air and water no longer flow.
3. Use a standard screwdriver to remove the filter housing from the utility module and remove the filter.

Figure 18. Filter Replacement



If the filter is visibly clogged or discolored, you will need to replace it. Order p/n 24.0234.00.

When installing a new filter, notice that one end of the filter has a beveled edge. Install the filter with the beveled edge facing the utility module. The system will not work properly if the filter is installed incorrectly.

Specifications

Cart Weight Specifications

25 lb (11.34 kg) vertical load is the maximum safe load capability of the work surface.

Weights of optional attachments

Tooth Dryer: 1 lb (.45 kg)

Intra-Oral Light Sources: 1 lb (.45 kg)

Duplex Receptacle Ratings

120 VAC, 20A maximum, branch circuit breaker limited.

Any optional non-A-dec attachments and/or accessories must comply with EN 60601-1 and EN 60601-1-2.



IMPORTANT For utility and electrical specifications, identification of symbols, and other regulatory requirements, see the *Regulatory Information, Specifications, and Warranty* document (p/n 86.0221.00), which is available in the Document Library at www.a-dec.com.



NOTE Specifications are subject to change without notice. Requirements may vary depending on your location. For more information, contact your authorized A-dec dealer.

Warranty

Warranty information is provided in the *Regulatory Information, Specifications, and Warranty* document (p/n 86.0221.00), which is available in the Document Library at www.a-dec.com.



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