



A-dec 500 Leveling

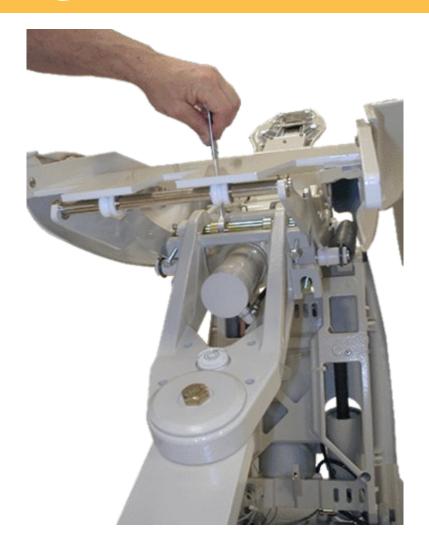
- Leveling should be checked and corrected before tension adjustments are made
 - Rough leveling is done during assembly
 - Final leveling should be done after all equipment is installed on the chair and the systems are in their normal use positions
- Level from the ground up:
 - Link arm and Support arm
 - Front mount
 - Control head
 - Tray
- A leveling video is available at a-dec.biz



Front Mount Leveling

Front Mount Final or Re-Leveling

- A bubble level is fixed to the front mount to check for level
- You will need two ¾" open end wrenches, a 7/16" wrench and a 5/16" hex wrench
 - Loosen cam bolts, leveling bolt flanged nuts and stabilization screws
 - Rotate cam for left right level
 - Move leveling stude in or out equally for front to back leveling
- Secure all fasteners to ensure leveling is locked in position



Front Mount Rotation Stops

- Front Mount Rotation Stops
- Stops are positioned in holes to limit arm rotation
- If support center is installed, place a stop in forward position on support center side
- If converting left to right, the stops can be repositioned



Front Mount Rotation Tension

Front Mount Tension Adjust

- Use 15/16" wrench to adjust rotational tension
- Nut on under side is self locking and captured



Delivery Arm Rotation Tension

Delivery System Rotational Tension Adjustment

- Should be adjusted at installation
- Use 3/32" hex wrench to set tension
- Note that this is one adjustment that is not factory set. The clamp must be relaxed to allow the arm to fit over the post.



Delivery Flex Arm Adjustment

- Delivery System Flex Arm Counter Balance Adjustment
 - All instruments and accessories should be installed prior to making this adjustment
 - Turn Master Toggle OFF to release air brake
 - Remove the 3 covers from rigid arm end of flex arm using a 5/64" hex wrench
 - Lower control head and slide flex arm cover off
 - Use a 7/16" open end wrench to adjust spring tension
- Note: Apply Lubriplate to the cover grooves to make installation easier





Delivery System Leveling

Delivery System

- Front to Back Leveling Adjustment
 - Remove joint covers with a 5/64" hex wrench
 - Use 3/16" hex wrench to level control head
 - Turn wrench clockwise to raise front of control head
- Position the delivery system centered over the chair when leveling



Control Head Leveling

- Control Head Leveling Left to Right
 - Use 5/32" hex wrench
 - Loosen and tighten the two leveling screws on opposite sides of the round support
- Position the delivery system centered over the chair when leveling





Control Head Rotation Tension

- Control Head Rotation Tension Adjustment
 - Use 5/32" hex wrench
 - Turning wrench clockwise increases brake tension



Tray Holder Leveling

- Tray Holder Leveling Adjustments
 - Use a 5/32" hex wrench
 - Left to right
 - Front to back





Tray Holder Rotation Tension

Tray Holder Adjustments

- Swivel tension in two places
 - Remove cover for access to rotation adjustment for upper arm
- Use 9/16" socket





Support Link Leveling

Leveling of Rear Support Link

- Loosen all four ¾" cap screws
- Loosen leveling bar ¾" jamb
 nut
- Use a ¾" end wrench to turn leveling bar bolt
- Tighten jam nut while holding leveling bolt
- Tighten the four cap screws to secure Support Link
- You will need to remove the support arm limit switch to gain access.



Lower Support Arm Tension

Rotation tension

- Use 3/16" hex wrench to eliminate any free play in the bearing and to increase or decrease rotational tension
- This adjustment should be done when lower arm is mounted to link arm and prior to mounting modules to the arm.



Assistants Arm Tilt Tension

- Assistants Arm
- Tilt up tension adjustment
 - Note: this tilt up resistance is factory set and should not need further adjustment
 - Use 3/16" hex wrench to change tilt up resistance



Assistants Arm Rotation Tension

- Assistants Arm Rotation
 - Remove cap from top of joint
 - Use 5/32" hex wrench to adjust tension
- Note position of data cable and the power cord



Assistants Arm Leveling

- Assistants Arm Leveling
- This adjustment is at the top joint
 - Remove joint cover
 - Use 5/32" hex wrench to loosen the two screws
 - Level top of Assistant's package
 - Tighten the screws to lock the new position
 - Move arm back and forth to observe consistent level



Monitor Mount Tension

- Monitor Mount Adjustments
- Pull tension and push resistance can be adjusted separately
 - Remove cover from top of mount
 - Use a 5/32" hex wrench
 - Left screw adjusts push resistance
 - Right screw adjusts pull tension



Dental Light Flex Arm Balance

Dental Light Adjustments

- To adjust flex arm tension
 - Remove cover by removing the Phillips screw and the two 5/64" hex button head screws
 - ▶ Using a ½" open end wrench adjust tension on the spring so the light head stays in position



Dental Light Adjustments

- Dental Light Adjustments
 - Use 5/32"" hex wrench to adjust the tension for:
 - Horizontal
 - Diagonal





Dental Light Adjustments

Dental Light Adjustments

- For vertical adjustment:
 - Use 5/64" hex wrench to loosen set screw
 - Use flat tip screw driver to adjust tension screw
 - Note: Access to screw is under right side yoke plug
- To focus use flat tip screw driver to obtain uniform pattern
 - Focus range is 18 to 31 inches
 - Factory set at 27 inches





Swivel Brake Adjustment

- Swivel Brake Adjustment, p. 33
 - Release brake tension
 - Insert 7/64" hex wrench in throughhole and into adjustment screw
 - Turn wrench to right to increase brake friction
- Hinged handle available as of Jan. '06
 - P/N TBA





Headrest Adjustment

Headrest lever adjustment

- Amount of play in lever actuation can be adjusted
- Use 1/16" hex wrench to control amount of play in lever actuation
- Headrest clutch assembly is not serviceable.



Glide bar Adjustment

Glide bar adjustment

- Use 1/8" hex wrench
- Turn clockwise to increase friction on glide bar



Air Pressure Adjustment

Adjust Air Regulator to 80 PSI

- Rotate the pre regulator knob to change system air pressure
 - Clockwise to increase air pressure
 - Counter clockwise to decrease air pressure, note: you will need to release some air from the system to get an accurate reading

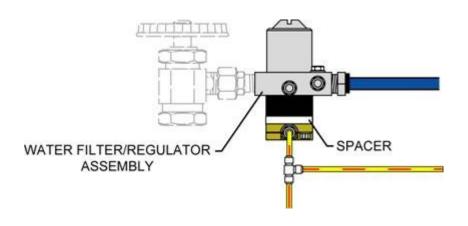


Water Pressure

Water regulation

- Water bottle has built in regulator set to maintain 40 PSI. Not adjustable.
- City water regulator has built in pressure reducer to maintain 35 to 40 PSI





Cuspidor Water Adjustment

- Cuspidor Water Intensity Adjustments
- Correct intensity adjustment will prevent splash and splatter
 - Cup fill intensity is the lower of the two top flow controls.
 - Note: the uppermost is reserved for future use
 - Bowl rinse intensity adjust is on bottom
 - Use 1/8" hex wrench to adjust desired water flow



Cuspidor Water Flow Timing

- Cuspidor Water Cup Level and Bowl Timing Adjustments
- Cup fill level is factory set to 2.5 seconds
- Bowl rinse timing is factory set to 15 seconds
- To change cup level or bowl timing:
 - Press the program button (1 beep)
 - Press cup or bowl button for as long as flow is desired then release (3 beeps confirms setting)
- To stop a timed flow, press the button once



Control Block Adjustments

- Control block adjustments for handpiece operation
 - Begin by closing all control valves: drive air, air coolant and water coolant
 - Water coolant adjustment
 - Lift handpiece from holder
 - Select water coolant and press Foot Control
 - Open water coolant flow control until one drop of water per two seconds is observed



Control Block Adjustments

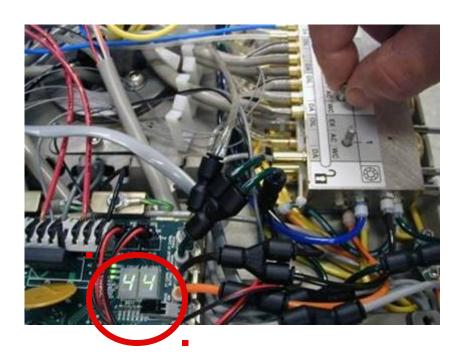
- Control block adjustments for handpiece operation
 - Air coolant adjustment
 - Open air coolant flow control until a fine mist is observed



Drive Air Readout

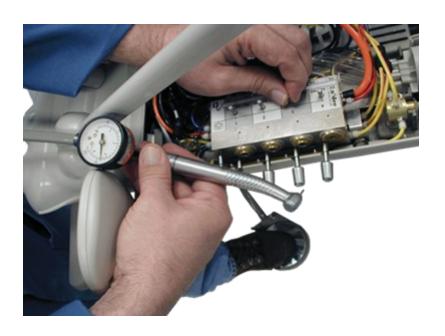
Digital readout of Drive Air Pressure on the control PCB

- Reference only and not to be used to set pressure.
- It will read higher than actual depending on HP, tubing length/material.
- If needed, it can be used to verify HP or control block operation.



Drive Air Pressure Gauge

- Drive air adjustment using a handpiece pressure gauge
 - Open control head cover
 - Lift handpiece from holder
 - Press on Foot Control
 - Rotate Drive Air flow control on top of block associated with the selected handpiece position
 - Observe true Drive Air pressure on gauge

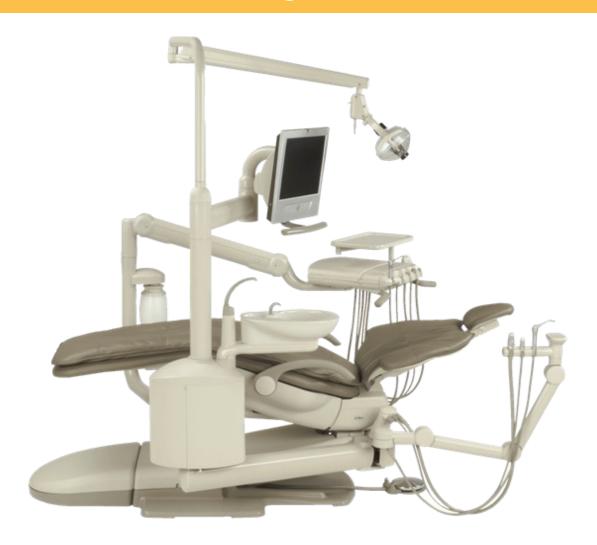


Syringe Flow Adjustment

- Syringe air and water flow adjustment
- Delivery System syringe flow control adjustment inside control head
 - Lift up control head cover for access
- Assistant's syringe flow control adjustment in lift arm
 - Remove lift arm cover for access



A-dec 500 Adjustments



A-dec 500 Maintenance



Hydraulic Fluid

Chair hydraulic fluid

- Position chair base and back full up
- Remove both the lift arm cover and the safety plate cover
- View fluid level from the rear
- Top up if need, cycle chair, inspect system for leaks
- Use only A-dec Hydraulic fluid P/N 61.0197.00



Air and Water Filters

Air regulator

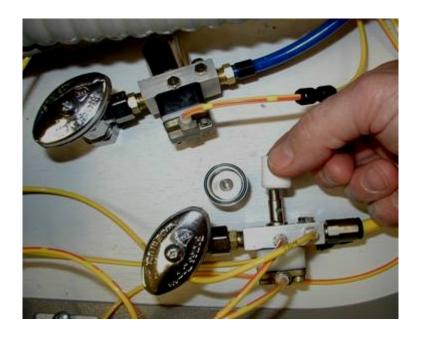
Check/replace air filter

Water regulator

Check/replace water filter

Notes:

- Turn off supply valves before attempting to remove filter caps.
- Install new filter with stepped edge down against manifold.

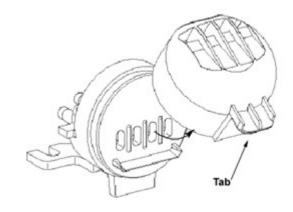


Handpiece Oil Collector

Oil collector:

- Cap hinges down for access
- Cap pulls off on models after July 2005
- Gauze pad should be change weekly
- Note:
 - Muffler can be replace if missing or dirty with P/N 77.0503.00





Vacuum Solids Collector

- Solids Collector pulls off for access to collection screen
 - Collection basket should be changed or cleaned daily
- Hot water should be drawn through the vacuum instruments daily
- Screens are available for vacuum instruments to prevent large objects from entering the tubing



Waterline Maintenance

ICX Waterline maintenance

- One tablet in empty water bottle
- Fill with treatment water
- Wait one minute
- Connect to unit
- Repeat for each bottle refill

Type of Water

- Tap
- Distilled if tap water contains high mineral content

Shock treatment

- If test show high bacteria level
- Sterilex Ultra startup
- ICX maintenance







