



Preventative Maintenance for A-dec® Simulators

A-dec recommends that you perform preventive maintenance annually or after 1500 hours of use.

General

Notes

- Check the operation of the torso movement including up, down, and rotation.
- Use the touch control (if equipped) to check for proper function and advise on recommended repairs or replacements.

Delivery System

Notes

- Use the touchpad (if equipped) and the foot control to check the operation of handpiece identification and activation, if applicable.
- Use the syringe nut torque adaptor (p/n 23.1354.00) to torque the syringe nut.
- Check for damaged, brittle, or stiff handpiece tubing and recommend replacement as necessary.
- Check the condition of the handpiece coupler O-rings and advise on repair as necessary.
- Check the control block valve condition. Replace the valve stem O-rings every five years or more frequently, if needed.
- Check the fiber optic voltages (if equipped) and adjust to handpiece manufacturer's specification as necessary.
- Replace the syringe O-rings and button-valve assemblies, lubricate with A-dec silicone lubricant, and verify the operation.
- Check for oil or water accumulation in the oil collector, replace gauze, and clean as necessary.
- Replace the self-contained water bottle sealing washer or O-rings (self-contained water option only).
- Test the function of all touchpad buttons.
- Check the operation of the handpiece holder valves and repair/replace as required.

Foot Control

Notes

- Check the condition of foot control tubing.
- Inspect and replace O-rings and the trim ring as necessary. Lubricate O-rings with A-dec silicone lubricant, and check for correct operation.
- Replace the diaphragm every five years or more frequently, if needed.

Foot Control (continued)

- Lever foot control only: clean or replace feet as necessary and check for coolant water on/off toggle function.
- Check for loose screws and tighten as necessary. If the center screws are loose, replace them with new screws that have blue patch or apply Loctite® to them.

Assistant's Instrumentation and Vacuum

Notes

- Check operation of the manikin mask drain. Clean or replace tubes as necessary.
- Inspect vacuum tubing for damage or leaks and recommend replacement as necessary.
- Air Vacuum System (AVS) option only:
 - Check the operation of the AVS system. Clean or replace the waste collection jar as required.
 - Inspect the vacuum waste collection jar seal and replace as required.
 - Inspect the O-rings in the vacuum generator assembly and lubricate or replace as required.
 - Inspect the muffler, including the grommet and muffler material. Ensure muffler is clear of dust and debris and is not damp. Dry out a damp muffler or replace as necessary.
- Check for damaged or brittle tubing and recommend replacement as necessary.
- Replace syringe O-rings and button-valve assemblies, lubricate with A-dec silicone lubricant, and verify operation.
- Replace HVE and saliva ejector O-rings, lubricate with A-dec silicone lubricant, and verify operation.
- Confirm that tailpieces are secure.
- Replace HVE screen, O-rings in vacuum canister, and tailpieces. Lubricate with A-dec silicone lubricant and verify operation.
- Inspect solids collector screen (central vacuum option only). Replace disposable screen or clean reusable screen and replace as necessary.
- Check that a vacuum system cleaner is being used and advise regarding cleaning needs as necessary.

Dental Light

Notes

- Check operation of on/off switch and controls, including the optional touch control.
- Check all intensity/mode settings and controls.
- Halogen lights only: ensure that the toggle switch is securely installed and tighten the retaining nut as necessary.
- Check light handles to ensure they are securely attached.
- Check light shield for cracks and wear. Replace as necessary.
- Check tension for each axis of rotational movement of light head assembly and adjust as necessary.
- Check spring tension for vertical movement of light arm and adjust as necessary.
- Check that rotation limit stops are in place.

Utilities

Notes

- Replace air filter (p/n 24.0234.00) and water filter (p/n 41.0004.00) screens.
- Inspect and replace air and water regulator diaphragms and O-rings as necessary.
- Check incoming air and water pressures and adjust as necessary.
- Check for air and water leaks.
- Check for damaged, brittle, or stiff tubing.
- Check incoming air to ensure clean and dry air is being delivered to the delivery system.
- Check moisture separators at the compressor, and replace moisture separator filters as necessary.

Other

Notes

- Check the monitor mount tilt tension and adjust as necessary.
- Check all arm pivot points for correct tension and adjust as necessary.
- Inspect and adjust fasteners as needed.
- Inspect covers to ensure proper fit and adjust as needed.
- Check caster rotation to ensure debris is not inhibiting movement.
- Check stool cylinder for leakage and ensure rod is free of visible dirt/grease.
- Check all stool seat, back/torso, and height adjustments to ensure proper operation.
- Check upholstery condition and recommend replacement as appropriate.
- Touch up “through to metal” scratches with paint as necessary.

Review

Notes

- Ensure staff and students are aware of the location of all Instructions for Use documents for equipment.
- Report on any necessary repairs and provide quotes as required.
- If required, instruct staff on correct maintenance and operation.
- Review the *A-dec Simulator Maintenance Checklist* (p/n 86.0703.00) with staff to ensure that routine maintenance is occurring as required. Point out checklist items that you have just completed as part of this preventive maintenance.

School / Clinic: _____
Address: _____

Station #: _____

Service Technician: _____
Service Date: _____

Reviewed with staff / customer:

Signature and Date

Staff / customer unavailable to review checklist

**Additional Comments /
Recommendations:**



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