

Ultrasonic Disintegrator Service Checklist- 24 point check



Below is a list of minimum checks that a Henderson Biomedical engineer will perform during a service visit. This list is intended as a guide and is not exhaustive. Indeed, there may be other checks that the engineer carries out. Please note that some of the checks listed below cannot be performed on every model of ultrasonic disintegrator.

Visual inspection of the instrument and accessories

General inspection of the instrument

Check for signs of damage to the casing and abnormal noises

Initial checks

Ensure that the ultrasonic disintegrator has been properly decontaminated before work begins

This can be carried out by the engineer if the user has not done so already.

Check the display screen (LED, LCD, touch screen) is clear and free from any faults

Take a note of the user program settings for later reference

Check the ultrasonic disintegrator is located correctly

Check the ultrasonic disintegrator has been appropriately sited, e.g. not on the edge of a work bench, not squeezed in between equipment and not near a heat source.

Functional checks

Inspection of the probes

Check for signs of erosion and pitting

Remove any debris or material from the probe

Ensure probe is tightly connected to the transducer

Verify the operation of the transducer

Do the different levels of sonication work as they should be?

Verify the operation of the timer

Electrical

Visual inspection of electronics including the PCB

Check for loose wires and/or connectors. Check the instrument is properly earthed

Do any of the components or cables show signs of burning?

Electrical safety checks carried out using a Portable Appliance Test (PAT)

Check panel indicators and switches are functional

Verify integrity of the mains cable and plug

Check all the keys on the keypad are working

Ensure cooling fan is functional and clean if necessary

General housekeeping

Ensure all nuts and bolts are properly secured

Clean instrument

Remove all expired and unnecessary labels. Remove adhesive deposits using label remover

Ensure that Henderson Biomedical Service and Support sticker is placed somewhere visible on the instrument

Complete service/calibration label sticker with date, serial number and engineer's initials

Leave instrument with original programmed settings set by the user

Inform the user of any remedial work and/or potential future problems (if any)

Offer advice and/or tips on prolonging the life of the instrument