

Heat Sealer Service Checklist- 44 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 heat sealer.

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 heat sealer 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 heat sealer is located correctly

Check the heat sealer has been appropriately sited, e.g. not on the edge of a work bench or squeezed between other equipment

Where applicable, check feed chute is present and positioned correctly

Functional checks

Ensure that the instrument reaches the set temperature (+/- 2%) using calibrated thermometer

Ensure the temperature is stable by comparing the display temperature with that of the thermometer

Verify the function of the drive motor

Verification of the function of the printer if applicable

Check print quality

Are there any lines or breaks in the text?

Replace ink ribbon if necessary

Motor (speed check)

Visual inspection of the motor

Check for signs of wear and tear, loose cables and corrosion

Gear box functional test

Inspect condition of drive belt if present

Check for cracks and ensure belt tension is taught and not loose

Lubricate motor bearing/drive belt where applicable

Heating System (temperature check)

Check heater bar for signs of damage and wear

Replace PTFE tapes to ensure smooth operation

Ensure all wiring is properly secured, especially earth wire

Check over temperature switches are functioning as normal

Check thermocouple is functioning and if there is any signs of wear and tear

Verify the heater bar alignment and gap position is suitable

Drive system (speed & force check)

Check integrity/shape of pressure roller and change if necessary and if applicable

Examine quality of transport belts

Check position and alignment of transport bars

Replace PTFE tapes on transport bars

Check all drive pulleys, bearings and gears

Lubricate whole system where applicable

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

Check cooling fan is functional and clean if necessary

Ensure all wiring is properly secured, especially earth wire

General housekeeping

Ensure all nuts and bolts are properly secured

Deep clean of the internal parts of the 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