deSoutter Vdrive Care Guide

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REPAIR PROCEDURE

Please take the time to fill the forms listed prior to sending in power equipment for repair.

The steps below will ensure that the power equipment you are sending will be serviced appropriately.

All power repairs require an RMA#

Step 1:
Please obtain an RMA# by filling out the form on our website https://usstore.movora.com/repairs/

You will receive a response email with an RMA#.

Step 2:

Please print and fill in the Certificate of Sterilization

Please include this form with the shipment of your power equipment to us.

For all power equipment repairs in the U.S., please ship to the following address:
Movora
Repair Department RMA#_____
310 Commerce Lake Dr Unit 107
Saint Augustine, FL 32095

For power equipment repair in Canada, please ship to the following address:
Movora Canada
290 Traders Blvd E Unit 4
Mississauga, ON L4Z 3E4

For all power repair related inquiries, please email: repairs@movora.com.

CLEANING AND DISINFECTION

MANUAL CLEANING

• Remove all attachments and accessories and wash them separately.
• Dispose of single-use accessories in accordance with local guidelines.

Manual cleaning should only be carried out where an automatic washer-disinfector is not available, or in order to remove large contaminant deposits. Manual cleaning should be conducted in a dedicated area, by trained personnel who are wearing protective clothing, for example: gloves, a waterproof apron, and goggles or a visor.

NOTE: The use of dedicated sinks with temperature-controlled water, ideally deionized or distilled, is recommended
NOTE: Cannulations, blind holes, recesses, and other surfaces which are hard to reach, require particular attention during reprocessing

Instructions

1. Wash off excess soil with running water (maximum 35°C). NOTE: avoid fluid ingress
2. Prepare a solution of detergent according to the detergent manufacturer's instructions.
3. Remove all visible traces of contaminant, using suitable nylon brushes to scrub the equipment thoroughly. i) Manually open and close chucks and blade clamps. ii) Ensure any trapped contaminants are removed by flushing through cannulations and other surfaces which are hard to reach.
4. Rinse off all traces of the detergent with deionized or distilled running water (45 - 65°C).
5. Shake off any excess water and dry the surfaces with a lint-free cloth.
6. Visually inspect each item. Verify that all contaminants have been removed in accordance with local reprocessing guidelines.

AUTOMATIC CLEANING

• Remove large contaminant deposits by manual cleaning.
• Remove all attachments and accessories and wash them separately.
• Dispose of single-use accessories in accordance with local guidelines.

An automatic washer-disinfector, capable of meeting the relevant national and international cleaning and disinfection standards (such as, ISO 15883 or HTM 2030), should be used.

CAUTION: The drying cycle should not be used with batteries. The drying cycle will adversely affect the performance and life of the battery.

NOTE: Cannulations, blind holes, recesses, and other surfaces which are hard to reach, require particular attention during reprocessing.

1. Place the handpieces, attachments and accessories into an insert tray and/or a wire basket.

i) Set chucks and blade clamps to a middle position.

ii) Ensure that sterile batteries are inverted (that is, contacts facing down).

iii) Ensure that aseptic battery housings are empty and open, with the open side facing down.

iv) Fit washing spacers and end caps as required.

v) Ensure that all items are separated.

NOTE: the placement of items in automatic washer-disinfector baskets can be a critical factor in achieving effective cleaning. The basket type and the position of the items within the basket should be managed by suitably trained personnel and be in accordance with the washer-disinfector instructions.

2. Follow the washer-disinfector manufacturer's loading instructions and select the appropriate cycle. The cycle should include the following:

Cycle Stage	Minimum Recirculation Time (min:secs)	Temperature	Detergent
Pre-wash	5:00	< 35°C	-
Enzyme wash	5:00	55 - 65°C	Endozime AW Triple Plus [a]
Rinse 1	2:00	55 - 65°C	-
Rinse 2	2:00	55 - 65°C	-
Thermal rinse	1:00	90°C	-
Pure water rinse	0:10	66°C	-
Drying *(not suitable for batteries)*	20:00	110°C maximum	-

a. other brands of detergent may be used provided the suitability of the detergent is verified before use.

3. Remove the disinfected equipment from the washer-disinfector and place the equipment in a clean area.

4. Remove any washing spacers and end caps, if fitted.

5. Visually inspect each item. Verify that all contaminants have been removed in accordance with local reprocessing guidelines.

Disinfection

Thermal disinfection is recommended and included in the automatic cleaning process. Where the use of an automatic washer-disinfector is not possible, the equipment should be wiped with a suitable disinfectant.

Maintenance

Lubricate collets and chucks using a suitable surgical instrument oil.

STERILIZATION

STERILIZATION OF HANDPIECES AND ACCESSORIES

THESE INSTRUCTIONS ARE NOT SUITABLE FOR STERILIZING BATTERIES
ASEPTIC HOUSING AND SHIELD CAN BE STERILIZED PER THE FOLLOWING
ASEPTIC HOUSING NEEDS TO BE OPEN, WITH THE OPEN SIDE FACING DOWN

Cycle	Wrapping [a]	Exposure Time and Temperature (-0°C / +3°C)	Drying Time [b]
vacuum assisted	optional	3-4 minutes at 134°C	30 minutes at maximum 110ºC
vacuum assisted (flash)	unwrapped	3-4 minutes at 134°C	none
gravity	wrapped	15 minutes at 134°C	30 minutes at maximum 110ºC
	wrapped	50 minutes at 121°C	20 minutes at maximum 110ºC

a. for reasons of non-repeatability during transport and storage, processes involving unwrapped equipment cannot be validated beyond the sterilisation procedure.
b. the drying times specified are for a full, wrapped sterilisation case containing 3 handpieces. If different quantities are used, the necessary drying time may vary.

General System Care

- Washing
  - Do not immerse/soak equipment in fluid. Wash as needed
  - Keep barrel of handpiece facing down while washing and in autoclave. No fluid pooling
  - Wash batteries with contacts facing down

- Wire Drivers
  - Use straight wires
  - Fit wire in straight or it can get stuck
  - Do NOT bend wire with wire driver
- Do not operate equipment when hot! Use a saline cloth if cool down is needed.
- Operate at room temperature

BATTERY STERILIZATION REQUIREMENTS

Do you have a vacuum assisted or gravity cycle on your autoclave?

Vacuum Assisted

Eligible for utilizing sterile batteries. These can only be autoclaved per a vacuum assisted cycle. Battery codes start with "SB"

Sterile Battery System

Sterile battery is directly attached to a hand piece and sterilized using vacuum assisted cycle or gas

Gravity

Eligible for utilizing aseptic batteries. These batteries do NOT get autoclaved. To keep sterile, a housing and shield are utilized. The housing and shield can be autoclaved per the "Sterilization of Hand pieces and Accessories" instructions

Aseptic Battery System

Battery is non-sterile and put in a sterile housing

Loading an aseptic battery pack

1. Press both catches to open housing
2. With the aseptic housing open, the *sterile operator* fits the aseptic shield over the opening
3. The non-sterile operator inserts the fully charged aseptic battery into the housing.
4. The *non-sterile operator* removes the aseptic shield.
5. The *sterile operator* closes the aseptic housing until the lid clicks shut, ensuring the housing is fully closed.

STERILIZATION OF STERILE BATTERIES

THESE INSTRUCTIONS ARE **ONLY** APPLICABLE TO THE SB703/SB704 BATTERIES
SB703/SB704 DO NOT HAVE A SEPARATE HOUSING AND SHIELD
ASEPTIC BATTERIES "AB-XXX" ARE **NOT** SUITABLE FOR STERILIZATION

CAUTION: *high temperature can affect the performance and life of a battery. The specified drying times should not be exceeded.*

CAUTION: *ensure that sterile batteries are fitted to the holder in the sterilisation container. The contacts should be facing downwards to allow any liquid to drain away freely.*

Model	Cycle	Wrapping [a]	Exposure Time and Temperature (-0°C / +3°C)	Drying Time (maximum 110°C)
SB-703 SB-704	vacuum assisted	optional	3-4 minutes maximum at 134°C	12 minutes maximum

a. For reasons of non-repeatability during transport and storage, processes involving unwrapped equipment cannot be validated beyond the sterilisation procedure.

Storage

To preserve sterility, wrap the sterilized equipment with a suitable material, capable of presenting a barrier to micro-organisms and particulate contamination

Point of Use

(After Reprocessing)

CAUTION: do not operate this equipment while it is still warm from reprocessing

CAUTION: this equipment should not be placed in a refrigerator or similar Following sterilization, allow this equipment to cool to room temperature before being used.

BATTERY MAINTENANCE TIPS

- When running a sterile battery through a vacuum assisted or gas autoclave cycle, remove the battery promptly at the end of the drying cycle. Failure to do so could over heat the battery.
- Batteries need to be “exercised” to maintain a full performance with each use. If batteries are not “exercised” properly, their lifespan will decrease. To exercise your battery, charge it regularly.
    - Reasons battery life is shortened:
        - Battery has been left in a handpiece that is not being used for an extended period
        - Battery sitting on an unplugged charger
        - Battery sitting on shelf and not being used
        - Batteries need to be cycled and charged every 30 days. Even when batteries are not in use, they need to be charged. Please do not leave your batteries on a shelf for more than 30 days without undergoing a maintenance charging cycle.
- If batteries drain below their discharge level from not undergoing maintenance charging cycles, they may not recharge
- If a battery does not charge to its full capacity of 5 bars on the charging bay, it should be considered for replacement. Batteries are unrepairable.

Symbols and Troubleshooting

Symbols

Symbol	Meaning	Symbol	Meaning
	Refer to the user manual		Only for use by a physician
	Single-use only		Do not immerse
	Dispose of in accordance with local regulations		Suitable for recycling
	Vacuum steam sterilise		Type BF protection
	Normal mode		Screwing mode
	Drive in the direction indicated		Pull and/or turn in the direction shown to unlock
	Temperature limits to which the equipment can be exposed		Pressure limits to which the equipment can be exposed
	Humidity limits to which the equipment can be exposed		Transport - keep away from rain
	Transport - fragile, handle with care		Transport - this way up
SN 16/00500	The first two digits indicate the year of manufacture		

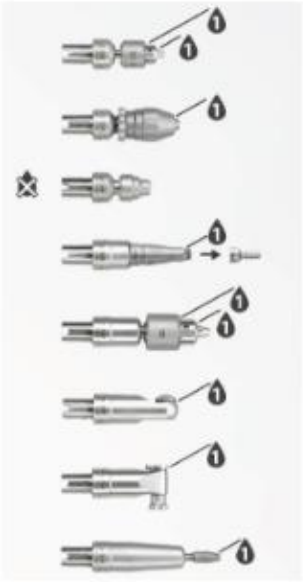
Troubleshooting

Problem	Cause	Action
Handpiece does not run	Battery is discharged	Charge the battery
	Battery is expended	Replace the battery
Handpiece runs slowly or judders	Battery is discharged	Charge the battery
	Small battery is being used	Use a larger battery
	Both triggers are pressed when using a saw attachment	Ensure only one trigger is pressed
Motor runs but the cutting accessory does not move	Attachment is not securely fitted	Re-fit the attachment
	Cutting accessory is not securely fitted	Re-fit the cutting accessory
Handpiece cuts out during use	Handpiece temperature protection has activated	Allow the handpiece to cool Release the trigger. The protection will reset within 2 seconds Ensure the recommended duty cycle is being followed Ensure the cutting accessory is sharp
	Battery overload protection has activated	Release the trigger. The protection will reset within 2 seconds Use a larger battery Charge the battery
	Handpiece stall protection has activated	Release the trigger. The protection will reset within 2 seconds Ensure the cutting accessory is sharp
Handpiece becomes unusually hot during use	Handpiece is being loaded too heavily	Ensure the recommended duty cycle is being followed Ensure the cutting accessory is sharp
Battery becomes unusually hot during use	Handpiece is being loaded too heavily	Use a larger battery Ensure the recommended duty cycle is being followed Ensure the cutting accessory is sharp
Attachment will not fit into the handpiece	Debris on the handpiece or the attachment	Clean the handpiece or the attachment
Cutting accessory will not fit into the attachment or handpiece	Debris on the handpiece or the attachment	Clean the handpiece or the attachment

CARE & MAINTENANCE

To enhance the life and performance of the equipment, it is recommended that prior to sterilization all moving parts of hand pieces and attachment are tested for ease of movement. If a component is 'sticky' due to debris or hard water, re-clean isolated area and if condition continues lubricate the item as shown below. Standard mineral oil or Blitz can be used for lubricant.

LUBRICATION INSTRUCTIONS



SPECIAL INSTRUCTIONS

Step 1 - Apply one drop of oil

Step 2 - Rotate to work oil in

Step 3 - Remove excess oil with lint free bud