

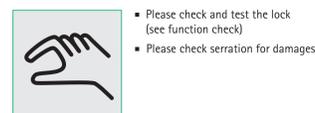
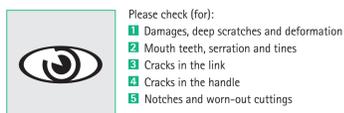
Think Surgical Instruments. Think AESCULAP®.

Function check of general instruments

General instructions	Scissors (Micro scissors)	Forceps/Clamps (surgical) (anatomical) (atraumatic)	Intestinal grasping forceps	Needle holder (Micro needle holder)
<p>After reprocessing please cool down the instruments to room temperature, otherwise there is a risk of material abrasion – friction corrosion damage.</p> <ul style="list-style-type: none"> Visual check on cleanliness, i. e. free from blood, organic and protein residues as well as other contamination. It is advisable to work with lights of 3-6 diopter. Please check in particular serrations, joints, all lumina and tube shafts for damage. If there are any residues another manual reprocessing is necessary! Please assemble the instruments prior to the functional check. Instruments with joints and sliding areas have to be handled carefully. Please note that all functional checks have to be carried out carefully, so that instruments which no longer comply with their intended use, e. g. by damage or abrasion, are eliminated accordingly. Damaged instruments have to be removed or returned back to the manufacturer for repair. In case of any doubts please ask the manufacturer for suitable test methods. Important note: When using test materials please ensure the respective manufacturer's instructions. 	<p>Please check tip for damages</p> <p>Please check tungsten carbide inlays for burrs</p> <p>Please check both sides for cracks</p> <p>Please check correct fit of the screw link</p> <p>Please check tips for damage</p> <p>Please check spring tension</p> <p>Please check spring for cracks</p> <p>Function check</p> <p>Cutting test:</p> <ul style="list-style-type: none"> According to DIN/ISO: Test material to be selected according to scissors: gauze bandage, cotton or rayon, tricot material. According to Aesculap: Aesculap internal test material: 20" division/100% cotton, approx. 0.4 mm material thickness, available through Aesculap Technical Service: ATS-BC01. The cutting test has to be carried out transverse to the web ribs. Please do 3 continuous cuts. <p>Result</p> <ul style="list-style-type: none"> Test material cut smoothly, without tearing, jamming, tugging, snagging or pushing. 2/3 of the blade length effectively cutting. 	<p>Jaws</p> <p>Box joint</p> <p>Lock</p> <p>Function check</p> <p>Check of the locks:</p> <ul style="list-style-type: none"> Lock has to be fully engage. Teeth have to engage completely into each other. Teeth have same measurements and fit nicely into each other. Locks have to align in closed condition. A safe lock must be secured in every closing position. It is essential that the clamp cannot be open unintentionally during an operation (risk of bleeding). <p>Function check</p> <p>Check of the box joint on closing:</p> <ul style="list-style-type: none"> Please take the clamp into your hands. Open the branches and then move them downwards against each other. <p>Result</p> <ul style="list-style-type: none"> Branches are wobble-free in their closed position. An accurate guiding of both jaws has to be guaranteed. Clamps must show an easy, smooth movement at every position. <p>Function check</p> <p>Check of the position of branches and rings:</p> <ul style="list-style-type: none"> Please place the clamp on a flat surface. Please check if the branches and rings are parallel. <p>Result</p> <ul style="list-style-type: none"> Branches and rings must not be bent. <p>Check of the jaw parts:</p> <ul style="list-style-type: none"> Visual and tactile (with the fingertip) check of the rounding of the inner jaw tips. <p>Result</p> <ul style="list-style-type: none"> Serration must not catch the skin. Jaws close springy from the tip along the entire interlocking grasping profile. Jaw parts must meet. 	<p>Check of the closing action:</p> <ul style="list-style-type: none"> Grasp test material paper ATS-FB01 with the clamp and close the jaws for 2 seconds. <p>Result</p> <ul style="list-style-type: none"> Open the jaws. The longitudinal profile must be evenly visible. Check paper against light. There must not be any holes in the paper. 	<p>Please check tungsten carbide inlays for abrasion</p> <p>Please check tips for abrasion</p> <p>Please check lock on functionality</p> <p>Please check spring tension</p> <p>Please check spring for cracks</p> <p>Function check of needle holder with or without tungsten carbide inlay</p> <p>Check of the jaw:</p> <ul style="list-style-type: none"> Please check the rounding of the inner jaw tips visually and tactilely with the fingertip. <p>Result</p> <ul style="list-style-type: none"> Tips, edges, grooves and tips of the jaw must not hook or tug into the skin. Jaw parts should close without pressure and with increased pressure completely close. <p>Check of the position of branches and rings:</p> <ul style="list-style-type: none"> Please place the needle holder on a flat surface and check if the branches and rings are parallel. Please take the needle holder in your hands and move branches downwards against each other. <p>Result</p> <ul style="list-style-type: none"> Branches and rings must not be bent. Branches must not be slack – a precise closure of both jaws must be guaranteed. All ring needle holders with a box joint must show easy and smooth motion in / from any position.

Professional performance of the maintenance steps	Wire cutter	Dissecting forceps (anatomic) (atraumatic) (surgical)	Bone rongeur	Detachable bone punches
<p>Maintenance/lubrication have to be done prior to the functional check and assembling.</p>	<p>Cutting edges to be checked for damages</p> <p>Spring to be checked for cracks</p> <p>Spring tension to be checked</p> <p>All screws to be checked for cracks and blood, organic and protein residues</p>	<p>Jaws</p> <p>Handle</p> <p>Please check spring for cracks</p> <p>Please check spring tension</p> <p>Spring must not be bent</p> <p>Function check of anatomic and atraumatic forceps</p> <ul style="list-style-type: none"> Forceps with jaw serration, atraumatic DeBakey-toothing or tungsten carbide insert have to close smoothly and parallel starting from jaw to tip. <ul style="list-style-type: none"> The serration or tips must interlock in the closed position. When closing the jaw parts must not be open or move. <p>For "DeBakey- and Cooley-toothing" only</p> <ul style="list-style-type: none"> Test material: tissue paper ATS-FB01 The impression of the longitudinal profile of the serration must be evenly visible on the tissue paper. <ul style="list-style-type: none"> If there is no profile visible the forceps do not close (complete sealing is not guaranteed). Serration must not perforate the tissue paper in closed position and visible longitudinal profile (risk of vessel perforation). 	<p>Jaw parts must be symmetrical and align to each other.</p> <p>The screw has to be tight when in use.</p> <p>Links must have no slack.</p>	<p>Punching check for detachable bone punches:</p> <ul style="list-style-type: none"> Test material: Cardboard (160 g/m²) ATS-FF01 <p>Check for cutting ability of the punch foot</p> <ul style="list-style-type: none"> Apply test material to the punch foot. In each test cut the whole cutting edge must be involved. Close the punch with pressure. <p>Result</p> <ul style="list-style-type: none"> The result must be a smooth cut image. The test material falls down when releasing. When closing the punch, the test cardboard must not be jammed between the slider and the main handle part. <p>Function check for detachable bone punches:</p> <ul style="list-style-type: none"> The sliding part must be easily put in the guide slot without any aids during assembly. The sliding part must continuously glide over the main handle part without jamming. Please press the handling parts of the punch together and reopen after assembly. The guideway, consisting of the sliding part and the main handle part must not have high stack. The sliding part and the punch foot must not be deformed at the cutting edge. The screw has to be in a tight position and must not become loose in use. The spring must not be damaged. <p>Cutting check and movability/The punch has to be opened and closed smoothly</p> <p>Please check slider and hollow for blood and organic residues</p>

Self-retaining retractors	Wound retractors (with prongs)	Scalpel handles	Probes	Dilators	Curettes	Bone levers	Bone curettes	Raspatories	Specula	Suction cannula	Osteotomes/chisels
<p>Open and close the instrument several times to allow that the lubrication has penetrated the joints.</p> <p>Aim: Prevention of friction of metal on metal (friction corrosion).</p>											<p>Function check for chisels</p> <p>Check the cutting ability by manufacturer:</p> <ul style="list-style-type: none"> According to DIN: Plastic of POM-C or Teflon Test material: ATS-FL01 <p>How to check:</p> <ul style="list-style-type: none"> The cutting edge has to be pressed with light pressure against the plexiglas rod with an 45° angle. The cut must attack neatly. The cutting edge must not slip off the plexiglas. Please repeat test on several points of the plexiglas rod → the whole cutting area has to be checked.



Your contact: