

TYPE II SPRING-STYLE KLEPPINGER LAPAROSCOPIC BIPOLAR FORCEPS

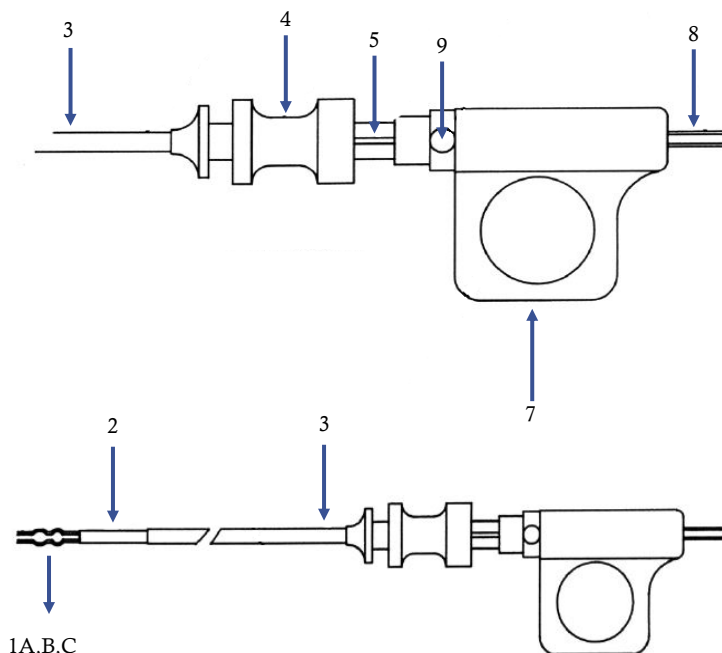
ASSEMBLY, CLEANING AND STERILIZATION INSTRUCTIONS

BIPOLAR FORCEPS W/ SLIDE HANDLE

52205-43	STANDARD JAW
52205-44	DELICATE JAW FOR MICRO COAGULATION

MAIN COMPONENTS

52205-43-01	INNER TONG ASSEMBLY
52205-43-02	INNER SHAFT
52205-43-03	OUTER SHAFT
52205-43-04	SLIDE HANDLE
52205-43-05	THUMB SCREW
52205-43-06	MAIN BODY
52205-43-07	HANDLE
52205-43-08	THUMB SCREW
52205-43-09	RF-CONNECTOR



DISASSEMBLY (52205-43 & 52205-44)

THE BIPOLAR FORCEPS WITH SLIDE HANDLE CAN BE DISASSEMBLED INTO 5 MAIN PIECES:

1. INNER TONG ASSEMBLY
2. INNER SHAFT
3. OUTER SHAFT
4. SLIDE HANDLE
5. MAIN BODY COMPLETE

TO DISASSEMBLE:

1. LOOSEN THUMB SCREW (No. 8)
2. PULL OUT INNER TONG ASSEMBLY (No. 1) IN DIRECTION OF ARROW
3. UNSCREW OUTER SHAFT (No. 3) FROM MAIN BODY (No. 6) BY TURNING IT COUNTERCLOCKWISE
4. LOOSEN BOTH THUMB SCREWS (No. 5) AT SLIDE HANDLE
5. PULL OUT INNER SHAFT (No. 2) IN DIRECTION OF ARROW

TO REASSEMBLE:

1. PUSH SLIDE HANDLE (No. 4) ONTO MAIN BODY (No. 6) UNTIL IT STOPS
2. INSERT INNER SHAFT (No.2) INTO MAIN BODY (No. 6). MAKE SURE THAT YOU PUSH THE INNER SHAFT ALL THE WAY INTO THE MAIN BODY UNTIL IT STOPS.
3. TIGHTEN BOTH THUMB SCREWS (No. 5). MAKE SURE THAT BOTH SCREWS ARE GOING THROUGH THE SLOTS OF THE MAIN BODY AND INTO THE GROOVE OF THE INNER SHAFT.
4. SCREW OUTER SHAFT (No. 3) ONTO MAIN BODY (No.6).
5. INSERT INNER TONG ASSEMBLY (No.1) UNTIL YOU FEEL A POSITIVE STOP. TIGHTEN SCREW (No. 8).

IMPORTANT: DO NOT OVER TIGHTEN THUMB SCREWS

CLEANING:

THE INSTRUMENT IS NOW IN FOUR PIECES: HANDLE, FINGER GUIDE, INNER TONG ASSEMBLY (TIP) AND OUTSIDE SHAFT. RINSE WITH DEIONIZED WATER TO REMOVE ANY GROSS DEBRIS. HAND-WASH ALL PARTS USING NEUTRAL PH DETERGENT OR ENZYMIC CLEANER*1 AND A SOFT BRUSH, BEING SURE TO FLUSH ALL LUMENS AND CHANNELS WITH THE SOLUTION. THOROUGHLY CLEAN INSIDE THE OUTSIDE SHAFT USING A SOFT BRUSH*2 AND FLUSHING SOLUTION THROUGH IT. AVOID THE USE OF STEEL WOOL, WIRE BUSHES, AND/OR ABRASIVE DETERGENTS.

CLEAN ENTIRE SURFACE OF INNER TONG, PAYING SPECIAL ATTENTION TO THE TIP AREA TO BE SURE ALL BLOOD AND DEBRIS ARE REMOVED.

THOROUGHLY RINSE INSTRUMENT WITH DEIONIZED WATER AFTER CLEANING TO REMOVE ANY RESIDUAL DEBRIS OR CLEANING SOLUTION.

*1 RECOMMENDED MERITZ PLUS DISINFECTANT/DECONTAMINANT ITEM No. **52003-90**.

*2 RECOMMENDED ELMED CLEANING BRUSHES ITEM No. **52003-31** & **52003-42**.

IMPORTANT: BE SURE TO ALWAYS CHECK THE FORCEPS TIPS. THE TIPS SHOULD BE FREE FROM ANY TISSUE OR ANY OTHER MATERIAL THAT MAY HAVE ADHERED TO IT DURING COAGULATION. UNLESS THESE TIPS ARE COMPLETELY CLEAN, THE FORCEPS WILL NOT COAGULATE PROPERLY. THE INNER TONG SHOULD BE TESTED FOR PROPER CONDUCTIVITY PRIOR TO STERILIZATION. RECOMMENDED ELMED BIPOLAR TESTER ITEM No. 5297.

STERILIZATION: THE INSTRUMENTS CAN BE STERILIZED FULLY ASSEMBLED (RECOMMENDED) OR IT CAN BE STERILIZED DISASSEMBLED AND THEN REASSEMBLED IN A STERILE FIELD IN THE OPERATING ROOM.

STEAM AUTOCLAVING

WHEN USING THE WRAP METHOD, MAKE CERTAIN THAT ALL COMPLETE INSTRUMENTS AND ALL PARTS ARE INDIVIDUALLY WRAPPED OR SEALED IN A STERILE PACK. METAL OBJECTS SHOULD NEVER COME IN CONTACT WITH THE INSULATING MATERIAL OF FORCEPS AND HANDLES, OR WITH RF-CONNECTION CABLES. SUCH POINTS OF CONTACT WILL CAUSE SEVERE MELTING.

WE RECOMMEND THE FOLLOWING VALUES/PARAMETERS, BUT ALSO SUGGEST FOLLOWING THE MANUFACTURER'S STERILIZATION UNIT INSTRUCTIONS FOR STEAM STERILIZATION:

CYCLE	STERILIZING TEMP	STERILIZING TIME	DRYING TIME *3
PRE VACUUM	270°F (132°C)	5 MINUTES	30 MINUTES
GRAVITY	250°F (121°C)	30 MINUTES	30 MINUTES

ETO STERILIZATION

INSTRUMENTS CAN BE STERILIZED BY ETHYLENE OXIDE IN ANY STANDARD CYCLE. PRESSURE READING SHOULD NOT EXCEED 12 PSI. TEMPERATURE SHOULD NOT EXCEED 68.3°C (155°F).

IT IS RECOMMENDED TO FOLLOW THE MANUFACTURER'S INSTRUCTIONS FOR THE ETO STERILIZATION UNIT CONCERNING HUMIDITY, VACUUM, CYCLE TIME, GAS CONCENTRATION AND TEMPERATURE.

STERRAD STERILIZATION PROCESS

USES LOW TEMPERATURE PLASMA. ADHERE TO THE STERILIZATION INSTRUCTIONS PROVIDED BY THE MANUFACTURER (E.G. JOHNSON & JOHNSON)

STERIS STERILIZATION PROCESS

STERILIZATION OF SURGICAL DEVICES BY THE STERIS PROCESS REQUIRES THAT THE LIQUID STERILANT MAKES CONTACT WITH ALL EXTERIOR AND INTERIOR SURFACES OF THE DEVICE. DURING THE STERILIZATION PROCESS THE DEVICES ARE RINSED WITH STERILE WATER, BUT NO DRYING CYCLE IS EMPLOYED. SINCE ELECTROSURGICAL ACCESSORIES PERFORM INCONSISTENTLY WHEN MOISTURE IS PRESENT YOU SHOULD MAKE ABSOLUTELY SURE THAT THE INSTRUMENTS ARE DRY BEFORE YOU USE THEM.

FLASH AUTOCLAVING (FAST HEATING/COOLING CYCLE)

FLASH AUTOCLAVING WILL REDUCE THE USEFUL LIFE OF THE INSTRUMENT, PARTICULARLY WHEN IT IS CONSTRUCTED OF VARIOUS MATERIALS, ENCOMPASSING DIFFERENT EXPANSION RATES.

CAUTION: CONTINUED USE OF THIS PROCESS WILL CAUSE PREMATURE FAILURE OF INSTRUMENTS, ESPECIALLY THE INNER TONG.

CHEMICLAVING – SOAKING: NOT RECOMMENDED

THIS IS DESTRUCTIVE TO THE INSULATING AND SILICONE MATERIALS OF ELECTROSURGICAL ACCESSORIES AND CAN CAUSE RAPID DETERIORATION AND FAILURE.

***3 IMPORTANT:** ADHERE TO PROPER DRYING CYCLE TO MAKE SURE THAT INSTRUMENTS ARE COMPLETELY DRY ON THE INSIDE (SAME APPLIES FOR BIPOLAR CABLES). MOISTURE WILL PREVENT PROPER BIPOLAR ELECTROSURGICAL CONDUCTIVITY.

WE DESIGN, MANUFACTURE, & SELL THE TOOLS THE SURGEONS USE

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