



Disposable Electrode Surgical Instruments

Instructions for Use

STATEMENT

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- This product is operated under strict observance of this manual.
- This product is not damaged by human factors, Human factors refer to unintentional falling, intentional damaging, etc.

In the event that it becomes necessary to return a unit to Optcda, please contact the Optcda Service Department. Please provide the model number, batch code, and a brief description of the reason for return. The customer is responsible for freight charges when this product is shipped to Optcda for service (including any relevant customs fees or other freight related charges).

For this operator's manual, the issued date is 2022-01(version:2.0)



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1 Intended Use

This device is intended to be used in laparoscopic operation. Probe intends to grasp, manipulate, cut, and cauterize soft tissue, organ or take samples from the body of patient during the surgical procedures. Disposable bipolar and monopolar cord are designed to connect an electrosurgical device, such as bipolar forceps or monopolar forceps to a compatible electrosurgical generator.

2 Description and Components

2.1 Description

1. **Working parameter:** $\phi 5 \times 330\text{mm}$, $\phi 5 \times 450\text{mm}$;
2. **Rated voltage** of mono-polar surgical instrument: 3000V. **Rated voltage** of bipolar surgical instrument: 800V;
3. **Shelf life:** 3 years.

2.2 Components

The jaws are operated by handpiece loop handles and may be shaped as scissors, dissectors or graspers. The jaws may be rotated by manipulating knob on the handpiece. The handles are available with varied shapes, with or without ratchet, and different shapes satisfying customers' requirements.

WARNING

- Verify the compatibility of parts from different manufacturers prior to conducting the procedure. And make sure the repeat peak voltage not exceed the rated voltage of the instrument.
- Endoscopic surgery should be performed only by physicians who are thoroughly trained in endoscopic techniques and failure modes, precautions and corrective actions in the event of failure.
- A thorough understanding of techniques and principles involved in electrosurgical procedures are necessary to avoid burn and shock hazards to patient and operator.
- The medical literature should be consulted regarding the techniques, contraindications, hazards and complications prior to the performance of these procedures.
- During high frequency operation if operated improperly may cause unintended damage of tissue, gas embolism, low frequency leakage, influence other electronic equipment, etc. Follow all instructions for use required by the generator manufacturer. Consult medical literature or country specific regulations for specific techniques, complications and hazards prior to procedure.
- Do not use a damaged or faulty instrument. Check the instrument for bent, broken, cracked, worn, or separated parts prior to use. Replace damaged parts in reusable instruments and re-sterilize prior to use.
- Ensure device grasping or cutting surfaces are fully visible prior to engaging the electrical current to avoid unwanted damage. Keep the working-end under full and unobstructed visualization during use.
- The instrument should be used cooperated with endoscope and the accessories in the laparoscopic operation.
- Connect bipolar accessories to the bipolar receptacle only and monopolar accessories to the monopolar receptacle only. Do not attempt to connect or interchange bipolar and monopolar accessories and receptacle connections. Improper connection of accessories may result in inadvertent accessory activation or other potentially hazardous conditions.

CAUTION

- Do not use excessive force or in a manner not consistent with normal instrumentation use.
- This instrument can only clamp or cut part of soft tissues. Check integrity of the instruments after each use to avoid left damaged parts in the patient.

NOTE

- The instrument is not intended for use when endoscopic techniques are contraindicated.
- Disposable devices are intended for single patient use only-DO NOT RESTERILIZE. Dispose of all used or damaged products using standard hospital practices for biohazard control. Instructions for sterilization of re-usable devices are noted in the appropriate sections.
- There is no contraindication that has direct connection with the instrument till now. Physician should have the idea whether patient can use this instrument according to the patient's particular situation. Please check the latest medical document for detailed information.

3 General Instructions for Use

1. Choose the right tip according to the requirements of the surgery.
2. To rotate the knob, turn the tip to desired location.
3. Close the tip and insert the instrument into the cavity through trocar.
4. For instruments with ratchet, position tissue inside the jaws and squeeze handle to desired clamping tightness. Different closure degrees have different locking forces. Choose the right degree and press the ratchet in front of the handle to close. Please operate as noted.

4 Storage

- Stored in controlled environment, which is kept away from the sun, rats, fire, insects and caustic gas, as well as with good ventilation.
- Storage temperature range: $-20^{\circ}\text{C} \sim 50^{\circ}\text{C}$, relative humidity range: 10%~80%.

5 Symbol Description

Table 1 Symbol Definition

	Type BF applied part		Batch Code		Manufacturer
	Latex-free		Caution		Catalogue Number
	Temperature Limit		Humidity Limitation		Keep Dry
	Keep away from sunlight		Fragile; handle with care		Do not re-use
	Trademark of Shenzhen Mindray Bio-Medical Electronics Co., Ltd.		This way up		Stacking limit by mass
	Use-by date		Do not use if package is damaged		Sterilized using ethylene oxide
	Refer to instruction manual/booklet		WEEE label The following definition of the WEEE label applies to EU member states only. The use of this symbol indicates that this product should not be treated as household waste. By ensuring that this product is disposed of correctly, you will help prevent bringing potential negative consequences to the environment and human health. For more detailed information with regard to returning and recycling this product, please consult the distributor from whom you purchased the product.		
	The product conforms to the requirements of the EC Directive MDD(93/42/EEC) on medical device		Authorized representative in the European Community		

Table 2 Definition of Safety Notes

Safety Notes	Meaning
	Read the statement below the symbol. The statement alerts you to an operating hazard that can cause personnel injury.
	Read the statement below the symbol. The statement alerts you to possible damage to the device or other property.
	Read the statement below the symbol. The information is quite important that you should notice prior to the surgery.

6 Product Model

302.802	302.946	122-3E113	122-4G123	122-3B112	122-4B232
302.805	302.901	122-3F113	122-4A123	122-4B112	122-3C232
302.811	302.813	122-4E113	122-4G123	122-3C112	122-4C232
302.812	302.816	122-4F113	122-3B123	122-4C112	122-3D232
302.815	302.817	122-3A113	122-3H123	122-3D112	122-4D232
302.821	122-4F123	122-3G113	122-4B123	122-4D112	122-3E332
302.822	122-3A123	122-4A113	122-4H123	122-3E222	122-4E332
302.823	122-4K423	122-4G113	122-3C123	122-4F222	122-3A332
302.837	122-3F383	122-3B113	122-3J123	122-3A222	122-4A332
302.838	122-4C383	122-3H113	122-4C123	122-4A222	122-3B332
302.839	122-3K413	122-4B113	122-4J123	122-3B222	122-4B332
302.840	122-3D413	122-4H113	122-3D123	122-4B222	122-3C332
302.841	122-3A403	122-3C113	122-3K123	122-3C222	122-4C332
302.842	122-4B342	122-3M113	122-4D123	122-4C222	122-3D332
302.843	122-3C342	122-4C113	122-4K123	122-3D222	122-4D332
302.844	122-4C342	122-3J113	122-3E112	122-4D222	122-3E342
302.845	122-3D342	122-3D113	122-4E112	122-3E232	122-4E342
302.846	122-4D342	122-3K113	122-3A112	122-4E232	122-3A342
302.847	122-3E352	122-4D113	122-4A112	122-3A232	122-4A342
302.848	122-4E352	122-4K113	122-3B352	122-4A232	122-3B342
302.849	122-3A352	122-3E123	122-4B352	122-3B232	122-4C352
302.945	122-4A352	122-3F123	122-3C352	122-4F223	122-3E223
122-3A223	122-3F233	122-3J243	122-3G263	122-3K273	122-3H293
122-3G223	122-3A233	122-4C243	122-4A263	122-4D273	122-4B293
122-4A223	122-3G233	122-4J243	122-4G263	122-4K273	122-4H293
122-4G223	122-4A233	122-3D243	122-3B263	122-3E283	122-3C293
122-3B223	122-4C233	122-3K243	122-3H263	122-3F283	122-3J293
122-3H223	122-3B233	122-4D243	122-4B263	122-4E283	122-4C293
122-4B223	122-3H233	122-4K243	122-4H263	122-4F283	122-4J293
122-4H223	122-4B233	122-3E253	122-4C263	122-3A283	122-3D293
122-3C223	122-4H233	122-3F253	122-3J263	122-3G283	122-3K293
122-3J223	122-3C233	122-4E253	122-4C263	122-4A283	122-4D293
122-4C223	122-4J233	122-4F253	122-4K263	122-4G283	122-4H293
122-4J223	122-4C233	122-3A253	122-3D263	122-3B283	122-3E313
122-3C223	122-4J233	122-3G253	122-3K263	122-3H283	122-3F313
122-3K223	122-3D233	122-4A253	122-4D263	122-4B283	122-4E313
122-4D223	122-4K233	122-4G253	122-4H263	122-4F283	122-4J313
122-4H223	122-4D233	122-3B253	122-3E273	122-3C283	122-3A313
122-3E233	122-4K233	122-3H253	122-3F273	122-3J283	122-3G313
122-3F243	122-4E233	122-4B253	122-4E273	122-4C283	122-4A313
122-3F243	122-4F233	122-4H253	122-4F273	122-4J283	122-4K313

122-4E243	122-3J353	122-3C253	122-3A273	122-3D283	122-3B313
122-4F243	122-4C353	122-3J253	122-3G273	122-3K283	122-3H313
122-3A243	122-4J353	122-4C253	122-4A273	122-4D283	122-4B313
122-3G243	122-3D353	122-4J253	122-4G273	122-4K283	122-4H313
122-4A243	122-3K353	122-3D253	122-3B273	122-3E293	122-3C313
122-4G243	122-4D353	122-3K253	122-3H273	122-3F293	122-3J313
122-4B243	122-4K353	122-4D253	122-4D273	122-4E293	122-4C313
122-3H243	122-3E363	122-4K253	122-4H273	122-4F293	122-4J313
122-4B243	122-3F363	122-3E263	122-3C273	122-3A293	122-3D313
122-4H243	122-4E363	122-3F263	122-3J273	122-3G293	122-3K313
122-3C243	122-4F363	122-4E263	122-4C273	122-4A293	122-4D313
122-3F343	122-3A363	122-4F263	122-4J273	122-4G293	122-4K313
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122-4F343	122-4A363	122-3G373	122-3K383	122-3H403	122-4D413
122-3A343	122-4G363	122-4A373	122-4D383	122-4B403	122-4K413
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122-3H343	122-3C363	122-4H373	122-4F393	122-4J403	122-3A423
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122-4H343	122-4C363	122-3K373	122-3G393	122-3K403	122-4A423
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122-3J343	122-3D363	122-4J373	122-4G393	122-4K403	122-3H423
122-4C343	122-3K363	122-3D373	122-3B393	122-3E413	122-3F423
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122-3K343	122-3E373	122-4K373	122-4H393	122-4F413	122-3C423
122-4D343	122-3F373	122-3E383	122-3C393	122-3A413	122-3D423
122-4K343	122-4E373	122-3F383	122-3H393	122-3G413	122-4C423
122-3E353	122-4F373	122-4E383	122-4C393	122-4A413	122-4H423
122-4F353	122-3A373	122-4F383	122-4J393	122-4G413	122-3D423
122-4E353	122-4J383	122-3A383	122-3D393	122-3B413	122-3E423
122-4F353	122-4D383	122-3G383	122-3K393	122-3H413	122-4D423
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122-4A353	122-3G403	122-3B383	122-3E403	122-3C413	122-3F383
122-4G353	122-4A403	122-3H383	122-3F403	122-3J413	122-3C353
122-3B353	122-4H353	122-4B383	122-4E403	122-4C413	122-3H353
122-4B353	122-3C383	122-4E123	122-4N423	9994019	9994020
122-3M113	122-3N113	122-4M113	122-4N113	122-3M123	122-3N123
122-4M123	122-4N123	122-3M112	122-4M112	122-3M222	122-4M222
122-3M232	122-4M232	122-3M332	122-4M332	122-3M342	122-4M342
122-3M352	122-4M352	122-3M223	122-3N223	122-4M223	122-4N223

122-3M233	122-3N233	122-4M233	122-4N233	122-3M243	122-3N243
122-4M243	122-4N243	122-3M253	122-3N253	122-4M253	122-4N253
122-3M263	122-3N263	122-4M263	122-4N263	122-3M273	122-3N273
122-4M273	122-4N273	122-3M283	122-3N283	122-4M283	122-4N283
122-3M293	122-3N293	122-4M293	122-4N293	122-3M313	122-3N313
122-4M313	122-4N313	122-3M343	122-3N343	122-4M343	122-4N343
122-3M353	122-3N353	122-3M363	122-3N373	122-3N383	122-3N393
122-3N403	122-4M353	122-4M363	122-4M373	122-4M383	122-4M393
122-4M403	122-4N353	122-4N363	122-4N373	122-4N383	122-4N393
122-4N403	122-3M363	122-3M373	122-3M383	122-3M393	122-3M403
122-3M413	122-3M423	122-4M413	122-4M423	122-3N423	122-3N413
122-3N413	122-3D352	122-4D352	122-3F223	122-4E223	122-3I021
122-3I011	122-3I011	122-3I021			