

## "RE-NEW IV" LAPAROSCOPIC HAND PIECES # 3904/5/8 & RATCHETED HAND PIECES # 3914/15/18

### INSPECTION:

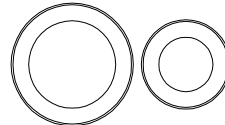
Carefully inspect the shipping carton and its contents for any sign of damage. If damage is visible, DO NOT USE and contact your local distributor.

### PRIOR TO USE:

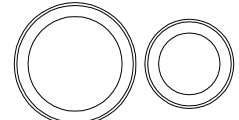
This instrument is delivered without tip. Tips are available in various configurations, (see catalog).

### ERGONOMICS:

This instrument is delivered with two sets of separately packaged re-usable non-latex rings (small & medium sizes). These rings are designed to be mounted around the inside of both handle finger holes, and are intended to maximize surgeon comfort by adjusting the inside size of the hand piece finger rings. Depending on what the surgeon feels most comfortable with, the small, medium, or no ring sets can be used during a procedure.



Small Non-Latex Rings



Medium Non-Latex Rings

### HANDPIECE/TIP ASSEMBLY:

1. Gently close the blades/jaws with your index finger and your thumb to insure complete closure (See Fig. 2).
2. With blades/jaws of tip and handles of hand piece in their closed position, insert tip into shaft.
3. Hold the blades/jaws and turn the hand piece rotation knob clockwise until tip is screwed tight.
4. The instrument is ready for use.

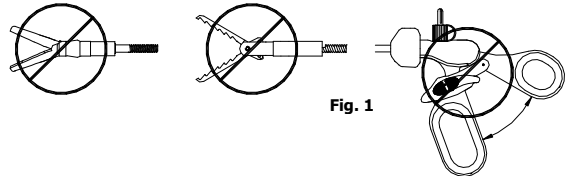


Fig. 1

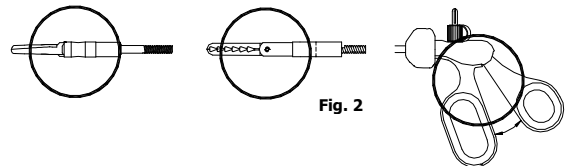


Fig. 2

### OPERATING INSTRUCTIONS FOR RATCHETED HAND PIECES.

1. Push switch (see fig. 3) forward in order to engage the ratchet mechanism.
2. Close the handles to the desired grasping position and let go. The instrument is locked on the tissue.
3. To release the grasper jaws, press down on the locking lever.
4. In order to use the instrument as a non-ratcheted one, pull the switch toward the back of the instrument. The instrument will open and close freely.

**NOTE: Non-Ratcheted mode is necessary to screw a tip on to the hand piece.**

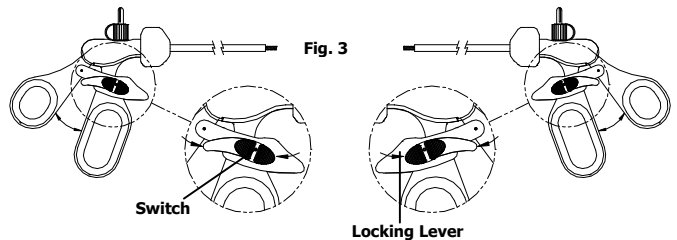


Fig. 3

Switch

Locking Lever

### Precautions:

1. If the blades/ jaws are not completely closed when screwed onto the hand piece, they may not cut or grasp completely at the distal tip.
2. CAUTION: Prior to use; assure that plastic hub of tip is fully in contact with the insulation tube of hand piece and that no gap exists between the two parts at that contact point.
3. Do not use hand piece if "O" ring located on distal end of shaft appears worn, damaged or missing.

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**ELECTROCAUTERY:**

First, connect the electrosurgical cord (not furnished with this instrument) to the hand piece by placing the female end of the cord on the male adapter pin on the hand piece. Plug the other end of the cord into the monopolar receptacle of the generator.

**PRECAUTIONS:**

1. A complete understanding of the principle of monopolar electrocautery surgical procedures is necessary to avoid accidental shocks, burns, or potential gas embolism to the patient.
2. Keep the power as low as possible to achieve the desirable effect.
3. Do not activate the generator until the scissors blades are in contact with the tissue or are in a position to deliver high frequency energy to the tissue.
4. Be sure that a return electrode grounding pad has been properly attached to the patient and the generator.
5. The RE-NEW IV Hand Piece has an O-ring, at the distal end of the shaft, which is an integral part of the system.

Prior to each use, it is very important to verify that the O-ring is in place and not damaged. If missing or damaged; **DO NOT USE**. Contact your local Microline Distributor for repair.

**CLEANING:**

**NOTE: MICROLINE RECOMMENDS THAT TIPS AND NON-LATEX RINGS BE DETACHED FROM HANDPIECE PRIOR TO CLEANING AND STERILIZATION.**

1. Place one device at a time into an ultrasonic bath filled with a mixture containing 60mL of ENZOL® Enzymatic Detergent per 4 L of water @ 22 - 40°C.
2. Sonicate device for 10 minutes.
3. Rinse the device with warm tap water to remove any visible residue and debris for one (1) minute.
4. Mechanically, clean the device of any visible signs of contamination using a soft brush or soft towel soaked in concentrated ENZOL® Enzymatic Detergent until no further bioload is observed on the brush or towel. Ensure that movable assemblies are advanced to their full range of motion for careful cleaning of all surfaces.
5. Rinse the device with warm tap water.
6. Remove the cautery plug.
7. Insert a 60 mL "Luer" type syringe filled with warm tap water where the cautery plug was removed.
8. Flush the inside of the shaft and tip clean.
9. Repeat steps 7 & 8 3 times.
10. Flush inside of the shaft three (3) times with deionized water for a final rinse.
11. Rinse the device three (3) times with deionized water for a final rinse.

**STERILIZATION:**

1. Prior to sterilization, the instrument must be thoroughly cleaned.
2. Wrap the instrument.
3. Sterilize the instrument following the protocol provided by the sterilizer manufacturer.

Microline recommends using the following validated sterilization cycles as minimum guidelines:

Gravity Cycle: 3 minutes @270F (132C)  
Pre-Vacuum Cycle: 3 minutes @270F (132C)

**WARRANTY:**

Microline warrants that this instrument is free from defects in both material and workmanship.

Microline shall not be held liable for incidental or consequential damage of any kind.

This warranty is valid only to the original purchaser of the instrument and for a period of one (1) year.

Work performed on this instrument by anyone other than a Microline Authorized Service Center will void this warranty.

**SERVICE AND REPAIR:**

Prior to returning this instrument for repair, call Microline Customer Service Center to obtain a Returned Goods Authorization number (R.G.A.).

The instrument will be returned unrepared to the sender if the following conditions are not met:

1. The instrument must be cleaned and sterilized after the last procedure.
2. The instrument must be assigned an R.G.A. Number.
3. The R.G.A. Number must be clearly visible on the outside of the box it is shipped in.

**CONTACT INFORMATION:**

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Or your local distributor.

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US Patent No. 5,358,508 & other patents pending.

Prices, specifications, and model availability are subject to change without notice.

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