

Echelon Circular™

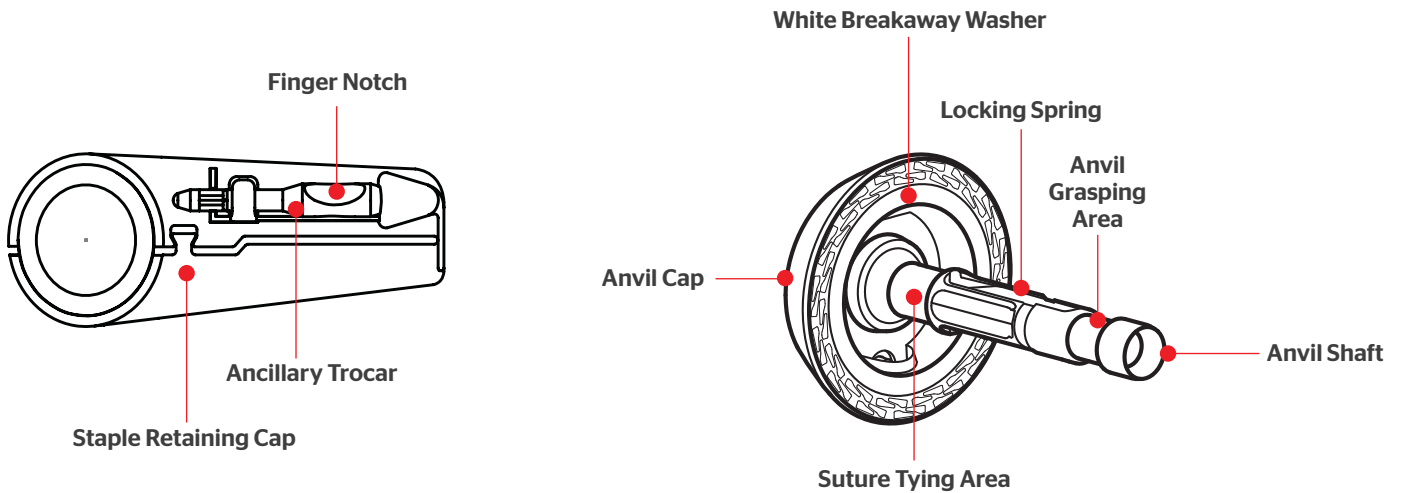
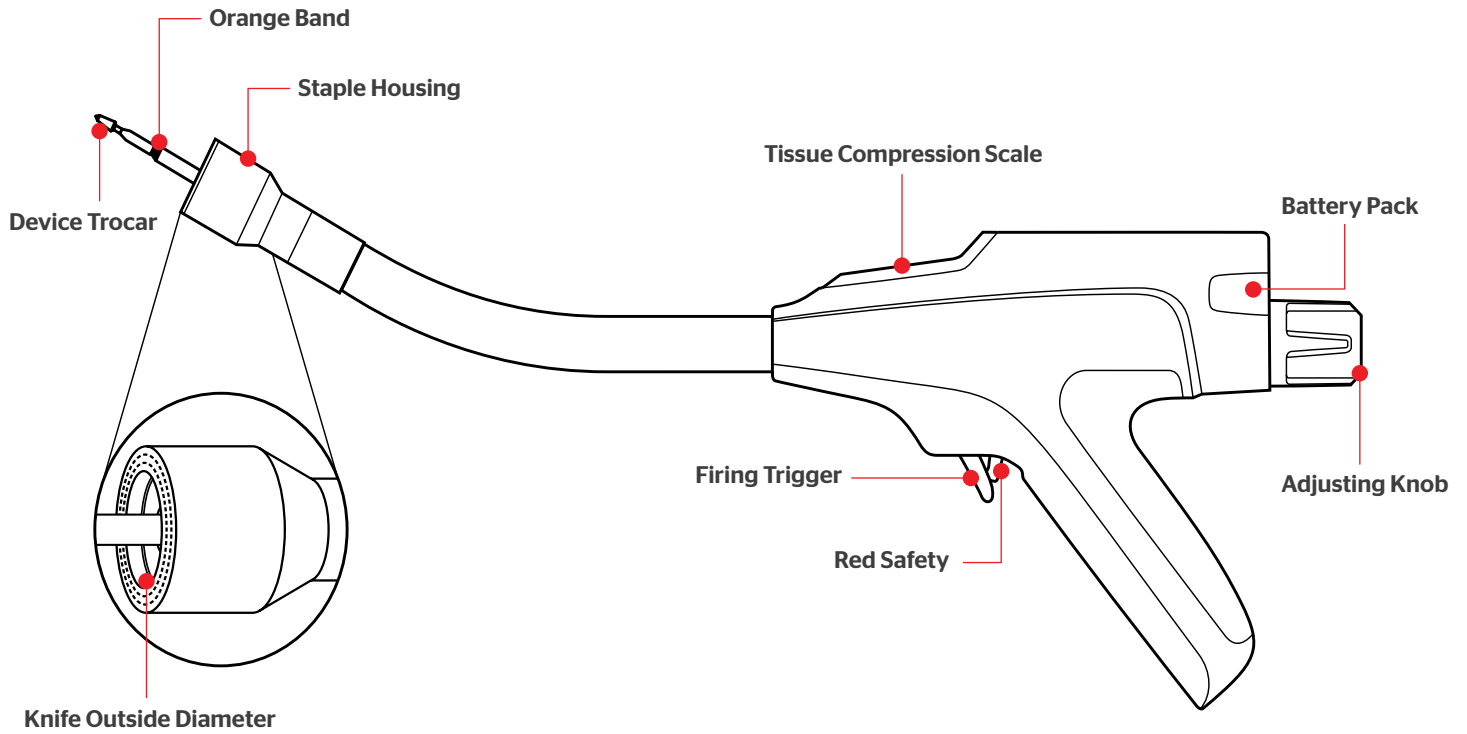
# ECHELON CIRCULAR™ Powered Stapler

## Optimized Device Performance Guide



# Device overview

## ECHELON CIRCULAR™ Powered Stapler

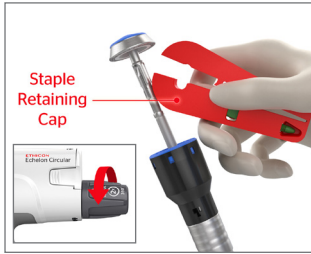


## Device preparation



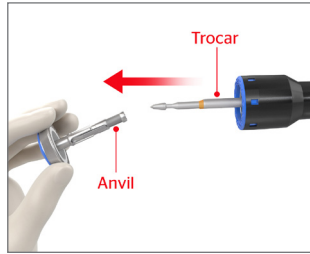
### 1. Install Battery Pack

The Battery Pack must be installed prior to use. Ensure the Battery Pack is fully inserted into the device. An audible click will be heard and the Tissue Compression Scale backlight will be illuminated when the Battery Pack is fully inserted.



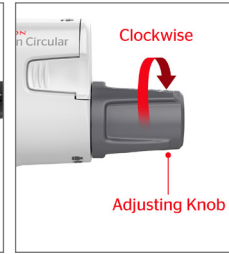
### 2. Opening and Staple Retaining Cap removal

Rotate Adjusting Knob counterclockwise until the Anvil Shaft is fully exposed and remove Staple Retaining Cap.



### 3. Anvil removal

Pull Anvil to remove from Trocar.



### 4. Device Trocar retraction

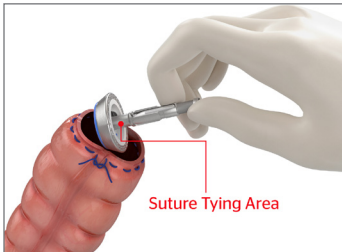
Retract Device Trocar by rotating Adjusting Knob clockwise until a stop is reached.



### Check Device Trocar

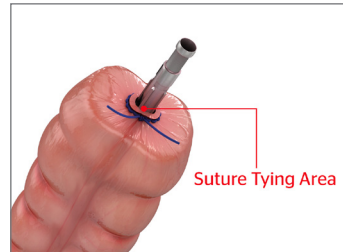
Verify it is fully retracted before proceeding.

## Anvil and device placement



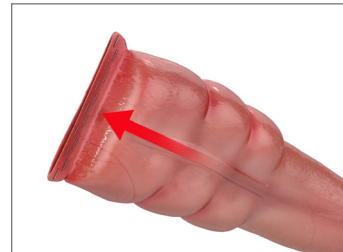
### 5. Anvil placement

Insert Anvil into Lumen.



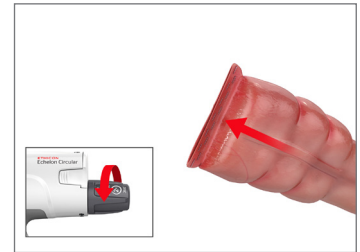
### 6. Secure Anvil

Secure the purse string onto Anvil Shaft above Suture Tying Area.



### 7. Device placement

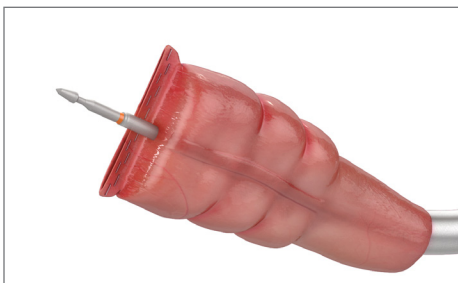
With Device Trocar retracted, insert Device up to closed Lumen.



### 8. Device Trocar penetration

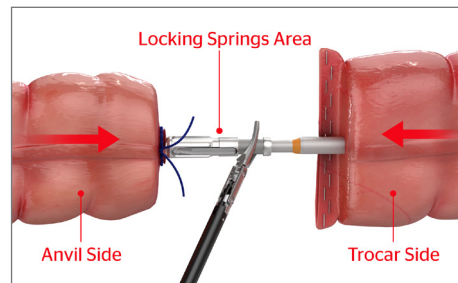
Fully extend Device Trocar and pierce tissue by holding the device while gently rotating the Adjusting Knob counterclockwise.

**NOTE:** Anvil Grasper can be used to prevent tissue tenting during Device Trocar penetration.



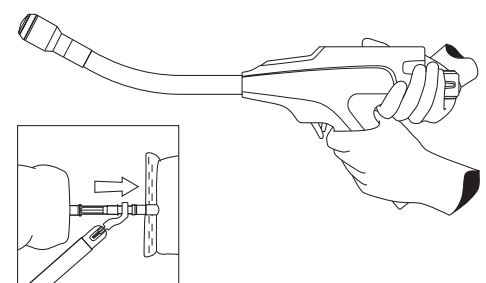
### 9. Tissue adjustment

Once penetrated, fully extend Device Trocar and push tissue down until Orange Band is visible.

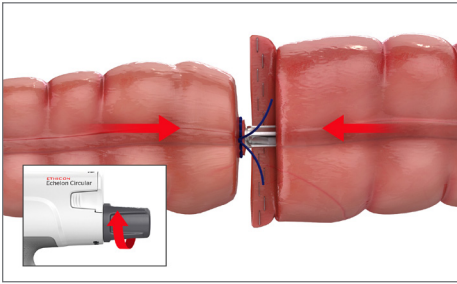


### 10. Attaching Anvil

Using an Anvil Grasper or similar instrument, grip Anvil Grasping Area, being careful not to grasp locking springs. Slide Anvil Shaft over Device Trocar until Anvil snaps into fully seated position. The Orange Band on the Device Trocar will be covered when the Anvil is fully attached.



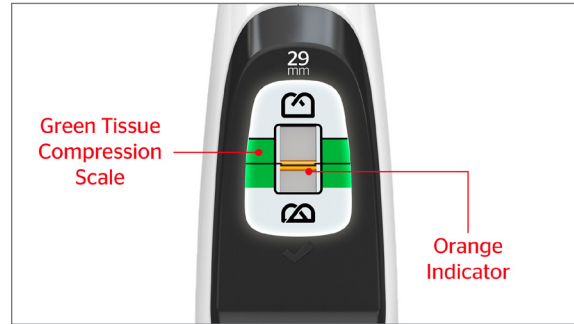
If necessary, hold the adjusting knob to prevent the Device Trocar from retracting during laparoscopic anvil attachment.



### 11. Closing device

Close by turning Adjusting Knob clockwise until Orange Indicator enters the green range on the Tissue Compression Scale, keeping anastomotic segments in proper orientation to prevent twisting of tissue.

## Tissue compression



### 12. Tissue compression selection

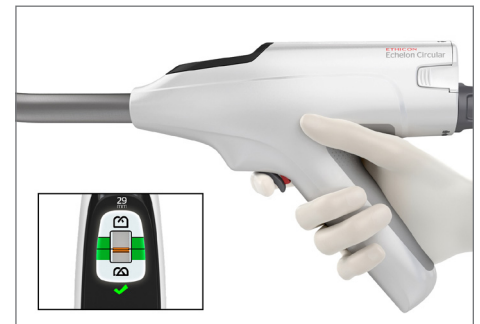
Continue closing device until tissue is adequately compressed for proper anastomosis. Wait 15 seconds to allow for adequate tissue compression and adjust if needed to maintain appropriate tissue resistance.

## Device firing



### 13. Red Safety disengagement

Confirm Orange Indicator is fully within green range. Draw Red Safety back toward the handle. The device will not fire if the anvil is not properly attached or if the Orange Indicator is not fully within the range of the Green Tissue Compression Scale.



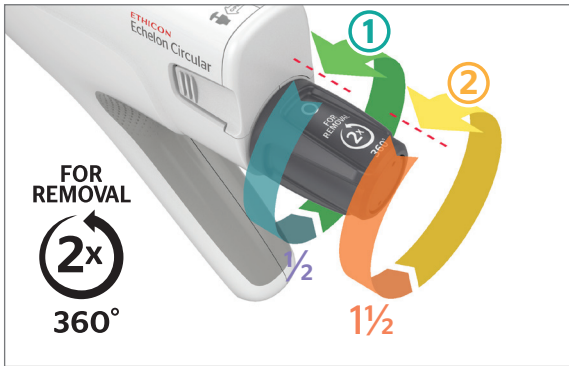
### 14. Firing

Activate the firing sequence by completely depressing the Firing Trigger. Keep device still and do not attempt to manipulate the Adjusting Knob until the firing sequence is completed, which will be indicated by an illuminated green check mark on the indicator window.

It is not necessary to hold the trigger once the firing sequence has initiated. The user may notice audible feedback during the firing sequence when cutting through the Breakaway Washer. Once fired, the device cannot be fired again.

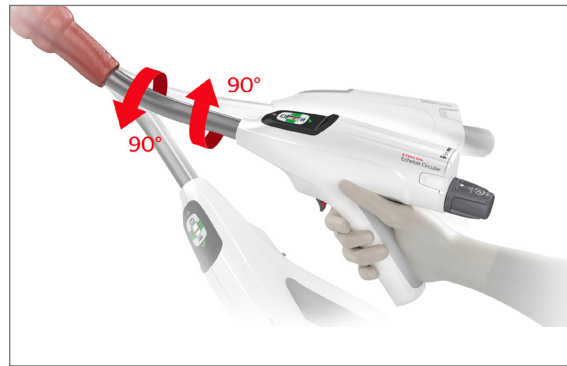
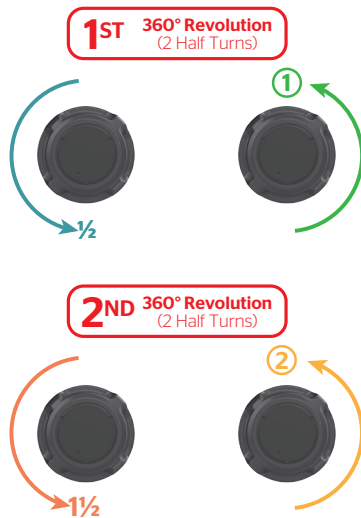
**CAUTION: If the firing mechanism becomes inoperative, the anvil may remain in the lumen and be reattached to a new ECHELON CIRCULAR Powered Stapler of the same diameter.**

## Device opening and removal



### 15. Open Device

Open device by turning Adjusting Knob counterclockwise for 2 complete 360° revolutions (2 X 360°) or 4 half turns (4 x 180°)



### 16. Remove Device

Rotate the device 90° in both directions taking care to minimize movement of the distal tip. This ensures the tissue is released. Gently pull out the device while simultaneously rotating device back 90°.

Repeat as required until device slides out.

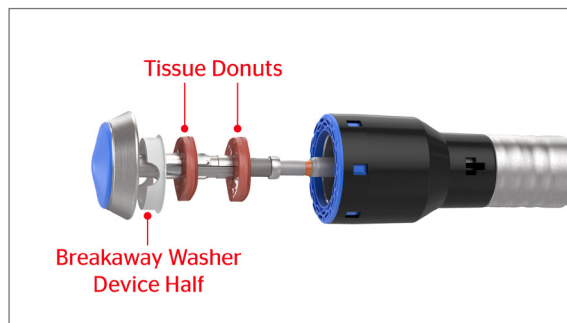
**CAUTION:** If the device does not freely release from the anastomosis or withdraw easily after rotation, turn the adjusting knob counterclockwise one additional complete revolution (360°) and attempt removal again by rotating the device 90° in both directions, taking care to minimize movement of the distal tip. Gently pull out the device while simultaneously rotating.

## Anastomosis check



### 17. Breakaway Washer and Donuts check

Fully open device and extract Breakaway Washer and Tissue Donuts.



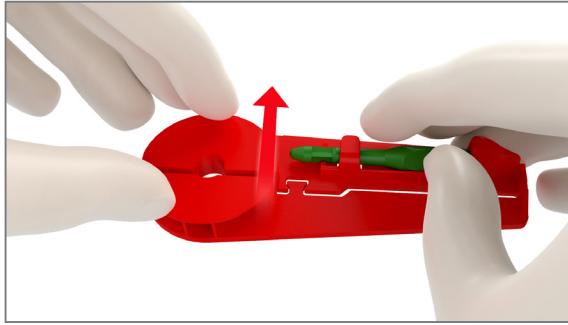
### 18. Examine Donut and anastomosis integrity

Examine the integrity of the Tissue Donuts and White Breakaway Washer. Donuts should be intact and include all tissue layers. Ensure that Donuts are complete, and the White Breakaway Washer is completely transected into inner and outer concentric rings. If Donuts or Breakaway Washer are not complete, the anastomosis should be carefully checked for leakage and appropriate repairs made.

## Ancillary Trocar use

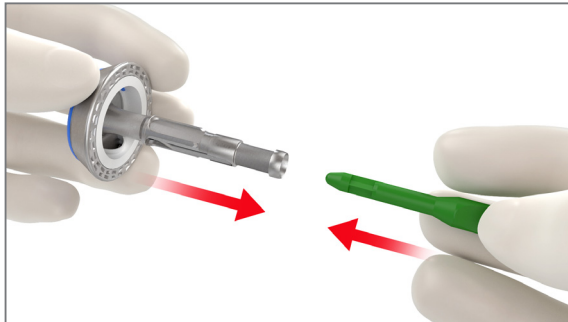
### 1. Removing Ancillary Trocar

To remove the Ancillary Trocar from the Staple Retaining Cap, grasp the Finger Notches and pull straight out, parallel to the retainer body.

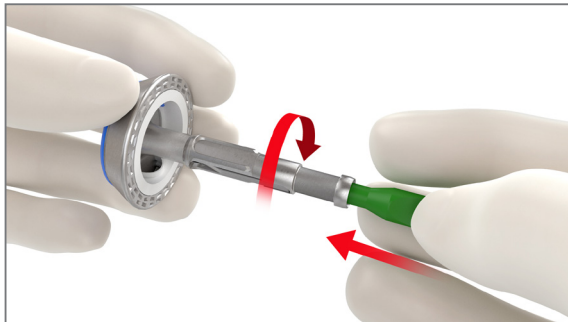


### 2. Attaching Ancillary Trocar

Grasp the Finger Notches of the Ancillary Trocar and place the blunt end into the Anvil Shaft.



Rotate the Ancillary Trocar with respect to the Anvil Shaft approximately 45° to ensure secure attachment.



### 3. Detaching Ancillary Trocar

Grasp the Anvil Grasping Area and grasp Finger Notches of the Ancillary Trocar. Rotate the Ancillary Trocar approximately 45° while pulling outward from Anvil Shaft.

