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Re: GI Endoscopes with Auxiliary Water Features

Dear Olympus Customer:

Over the years, Olympus endoscopes have had several different configurations for auxiliary water. On older models, the auxiliary water inlet is located just below the grip of the endoscope. In most cases this auxiliary water feature creates a means of producing assisted lens washing via syringe. The water flush from the syringe travels down the standard water channel and exits the air/water nozzle, producing a powerful supplemental wash of the objective lens. These endoscopes do not have a dedicated auxiliary water channel. The auxiliary water inlet is simply a side-tap into the standard water channel. This side-tap is not reprocessed when the standard air/water system is reprocessed. This auxiliary water inlet must be reprocessed after each patient examination.

Certain Olympus endoscopes have an auxiliary water feature that is often referred to as a "water-jet". These instruments contain a dedicated auxiliary water channel that is separate from the standard water channel. The water-jet feature in these endoscopes produces a forward-directed water spray from the tip of the endoscope for washing the mucosa of the GI tract. This water does not go through the air/water nozzle. No part of this channel is reprocessed when the standard air/water system is reprocessed. This auxiliary water channel must be reprocessed after each patient examination.

In addition to "auxiliary water" and "water-jet" features, all JF, PJF and TJF duodenoscopes, certain ultrasound endoscopes, as well as the GIF-2T20 therapeutic gastroscope, have forceps elevators. All of these models contain a wire to operate the elevator, along with a channel which houses the wire. This elevator-wire channel is not reprocessed when the standard suction and air/water systems are reprocessed. This elevator-wire channel must be reprocessed after each patient examination.

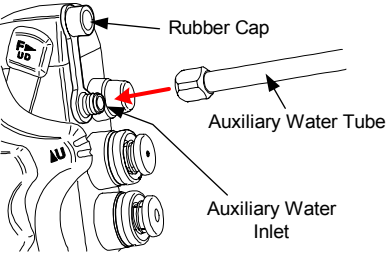
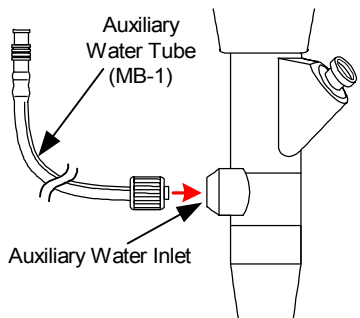
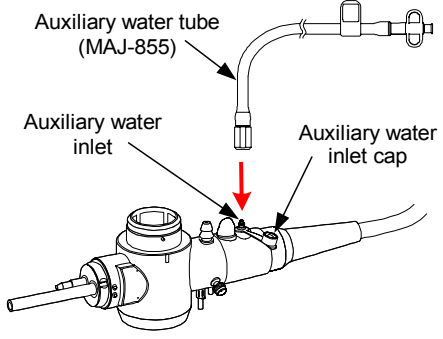
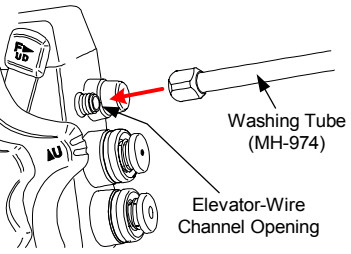
We have put together the attached matrix to help you identify the various "assisted lens wash", "water-jet" and "elevator wire-channel" features found on various models of Olympus endoscopes. Please make sure that you are familiar with the function of each of these features. Please be aware that all of the special channel openings depicted in this matrix must be reprocessed each time the endoscope is used, regardless of whether you have utilized these channels during the endoscopy procedure.

If you have further questions regarding the proper steps to reprocess your Olympus endoscopes, please contact your local Olympus sales representative. If you wish to receive additional copies of any of Olympus' operation or reprocessing manuals, please call 1-800-848-9024.

Sincerely,

Olympus America, Inc.

## Location of Channel Openings That Require Special Attention During Reprocessing

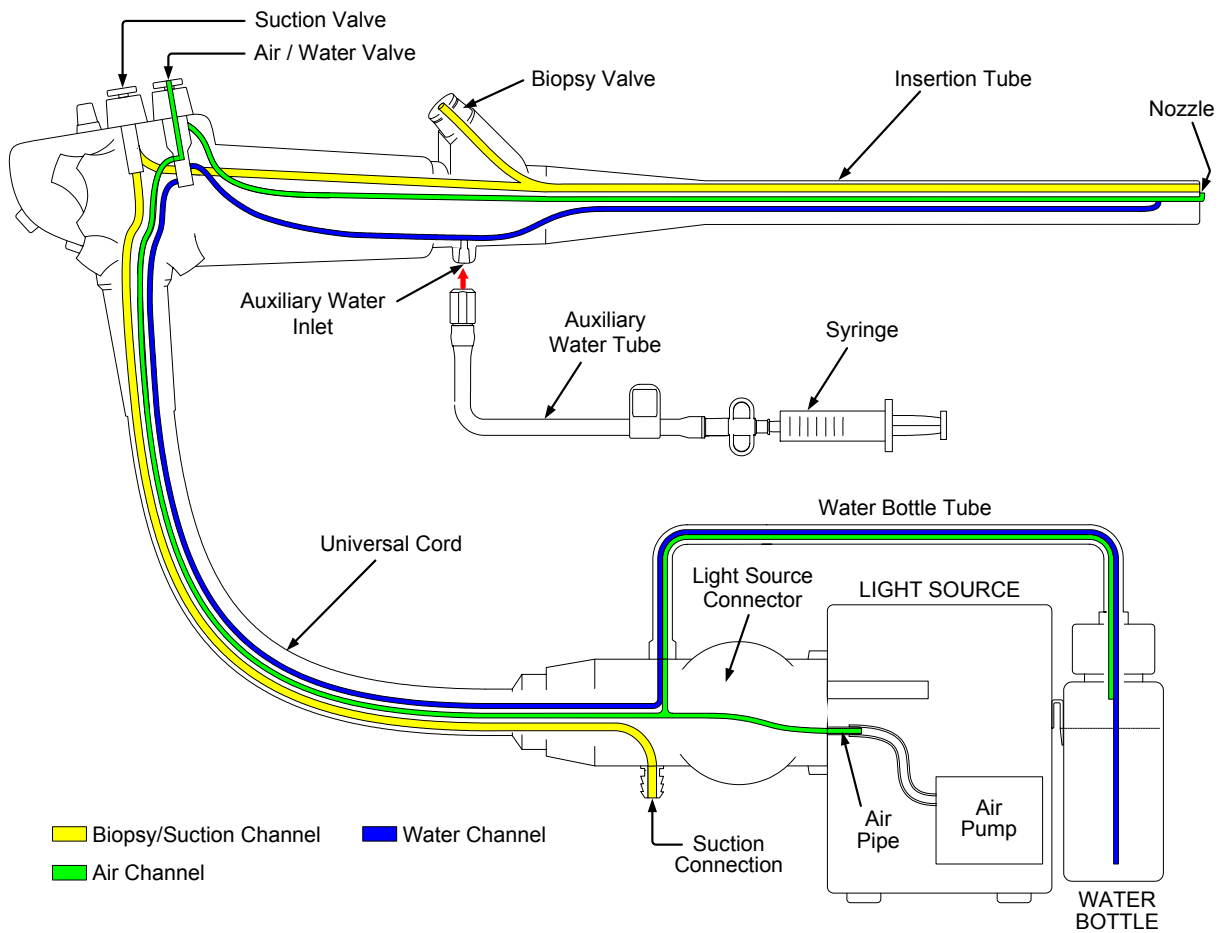
Location		Feature / Channel Type									
		Assisted Lens Wash	Forward Water Jet								
	<p>The channel opening for the water-jet on these endoscopes is located on the control section, above the suction valve.</p>	N/A	<p>GIF-XT30* GIF-1T140** CF-1T140I/L**</p> <p>*requires MH-437 Aux. Water Tube **requires MH-974 Aux. Water Tube</p> <p>(see Figure 3 on page 4)</p>								
	<p>The auxiliary water inlet for these endoscopes is located on the control section, below the grip.</p>	<p>Many CF and PCF models in the following series:</p> <p>10/20/30 fiberscopes 100/130 videoscopes 200/230 videoscopes</p> <p>(see Figure 1 on page 3)</p>	<p>GIF-1T30 GIF-1T100/130 GIF-2T100</p> <p>(see Figure 4 on page 5)</p>								
	<p>The auxiliary water inlet for these endoscopes is located on the light guide connector.</p>	N/A	<p>GIF-2T160 CF-Q160L/I/S CF-Q160AL/I</p> <p>(see Figure 2 on page 4)</p>								
		Elevator Wire Channel									
	<p>The opening for the elevator-wire channel on these endoscopes is located on the control section, above the suction valve.</p>	<p>All models of: PJF, JF, TJF</p> <p>GIF-2T20</p> <p>Ultrasound endoscope models*:</p> <table style="width: 100%; border: none;"> <tr> <td>GF-UC30P</td> <td>GF-UCT140-AL5</td> </tr> <tr> <td>GF-UC140P-AL5</td> <td>GF-UCT140-D05</td> </tr> <tr> <td>GF-UC140P-D05</td> <td>GF-UCT160-OL5</td> </tr> <tr> <td>GF-UC160P-OL5</td> <td></td> </tr> </table> <p>*Note: All ultrasound endoscopes contain a balloon water channel which requires additional reprocessing steps. Refer to the endoscope's instruction manual for details.</p>	GF-UC30P	GF-UCT140-AL5	GF-UC140P-AL5	GF-UCT140-D05	GF-UC140P-D05	GF-UCT160-OL5	GF-UC160P-OL5		
GF-UC30P	GF-UCT140-AL5										
GF-UC140P-AL5	GF-UCT140-D05										
GF-UC140P-D05	GF-UCT160-OL5										
GF-UC160P-OL5											

# Forward Water-Jet vs. Auxiliary Lens Washing

The following four figures illustrate the various configurations Olympus has used for auxiliary lens washing and mucosal washing via a forward water-jet.

FIGURE 1 – Assisted Lens Washing (inlet on control section below grip)

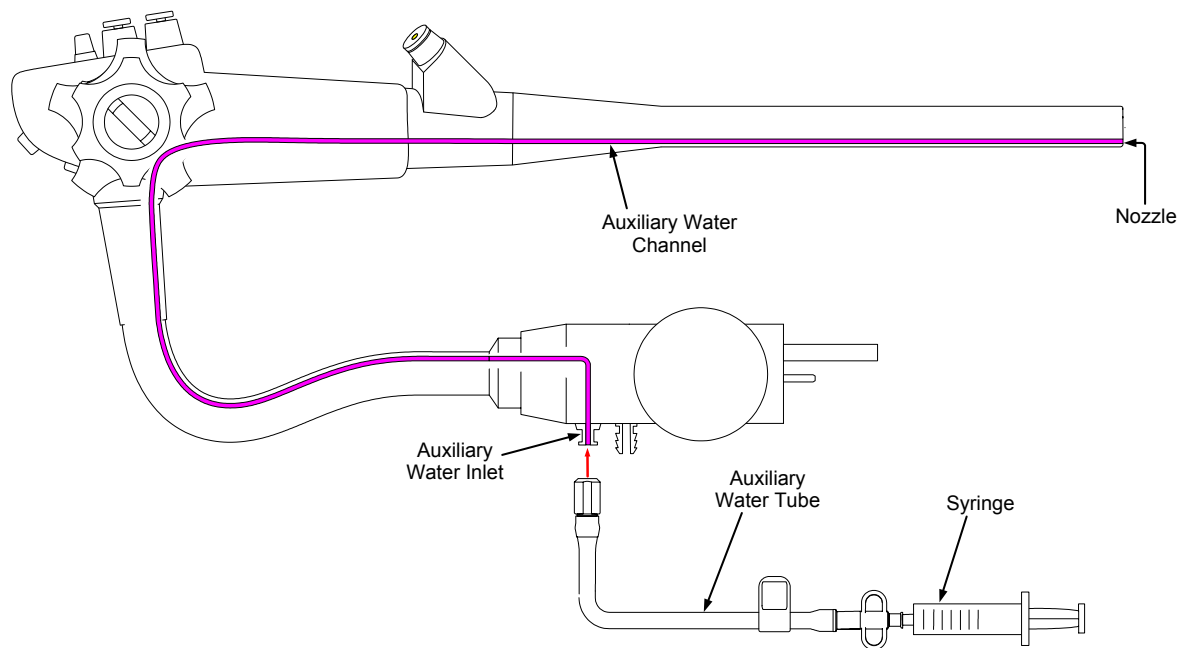
This schematic illustrates an example of an endoscope that has an auxiliary water inlet to allow the operator to inject water forcefully through the air/water nozzle to improve lens washing. Water injected via a syringe into the auxiliary water inlet travels down the same water channel used by the air/water valve. This water then exits the air/water nozzle at the distal tip of the instrument, cleaning the lens. (Found on many CF and PCF models of 10/20/30, 100/130 and 200/230 series instruments.)



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**FIGURE 2 – Forward Water-Jet (inlet on light source connector)**

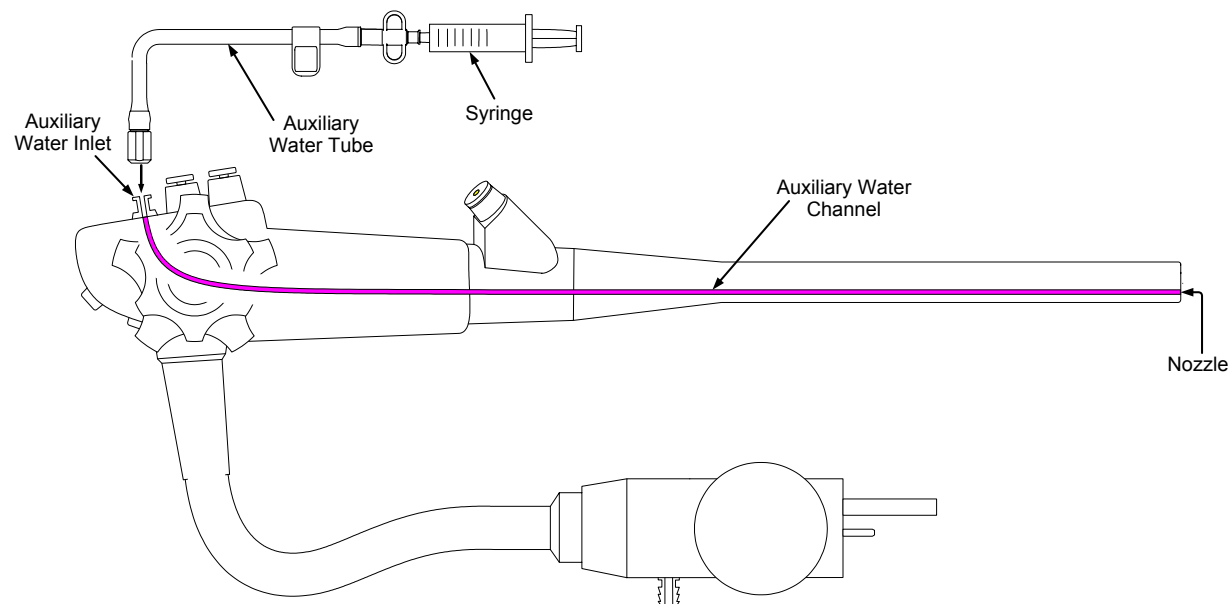
This schematic illustrates an example of an endoscope that has a dedicated channel for producing a “water-jet” flush. The water injected into the auxiliary water inlet travels through a dedicated water channel. It exits the tip of the endoscope producing a powerful forward spray of water for washing the mucosa of the GI tract. (Found on GIF-2T160, CF-Q160 L/I/S and CF-Q160A L/I models).



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**FIGURE 3 – Forward Water-Jet (inlet on the control section above suction valve)**

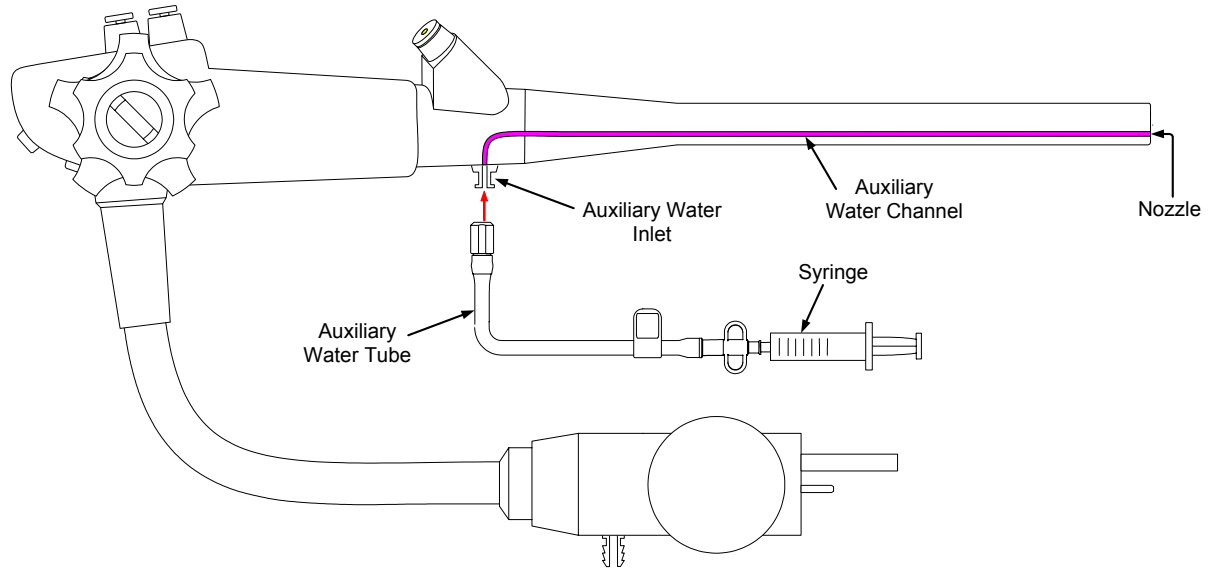
This schematic illustrates an example of an endoscope that has a dedicated channel for producing a “water-jet” flush. The water injected into the auxiliary water inlet travels through a dedicated water channel. It exits the tip of the endoscope producing a powerful forward spray of water for washing the mucosa of the GI tract. (Found on GIF-XT30, GIF-1T140 and CF-1T140 I/L models.)



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**FIGURE 4** – Forward Water-Jet (inlet on the control section below grip)

This schematic illustrates an example of an endoscope that has a dedicated channel for producing a “water-jet” flush. The water injected into the auxiliary water inlet travels through a dedicated water channel. It exits the tip of the endoscope producing a powerful forward spray of water for washing the mucosa of the GI tract. (Found on GIF-1T30, GIF-1T100/130 and GIF-2T100 models.)



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