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Fiber optic laryngoscope blade assemblies Directions for use

Intended use

The rigid laryngoscope is a device used to examine and visualize a patient's airway and aid placement of a tracheal tube.

About this document

This directions for use applies to Welch Allyn reusable fiber optic laryngoscope blade assemblies MacIntosh REF: 6906X, English MacIntosh REF: 6921X, and Miller REF: 6806X. Welch Allyn reusable fiber optic laryngoscope blade assemblies may be used with Welch Allyn fiber optic laryngoscope handles 60813, 60814, 60815, 60713, and 60835.

Warnings and cautions



WARNING: Reusable fiber optic laryngoscope blade assemblies must be reprocessed after each use.



WARNING: The reprocessing procedure and the equipment and materials described must be followed and conducted by persons trained and familiar with medical device reprocessing.



WARNING: Consult cleaning and disinfecting agent manufacturer instructions for their proper preparation and use.



WARNING: Repeated reprocessing may degrade elements of the device. Follow inspection procedures to assure damage has not occurred to the blade assembly.



WARNING: Only trained personnel shall use a laryngoscope for intubation.



WARNING: Do not reprocess laryngoscope blade assemblies used on patients with Creutzfeldt-Jakob disease. These instruments should be discarded.



WARNING: Discard any component that shows evidence of damage or deterioration.



WARNING: Do not modify this equipment. Any modification of this equipment can lead to patient injury. Any modification of this equipment voids the product warranty.



WARNING: Personnel shall follow their facility policies and procedures and wear appropriate personal protective equipment when handling potentially contaminated equipment.



WARNING: Laryngoscope equipment is not suitable for use in intense magnetic fields.



CAUTION: Failure to follow these instructions may cause damage to this device.



CAUTION: Only use neutral pH (6.0-8.0) enzymatic type cleaners.



CAUTION: Only use neutral pH (6.0-8.0) ortho-phthalahyde (OPA) or glutaraldehyde disinfectants.

CAUTION: Do not use other cleaners or disinfectants.

Reprocessing instructions

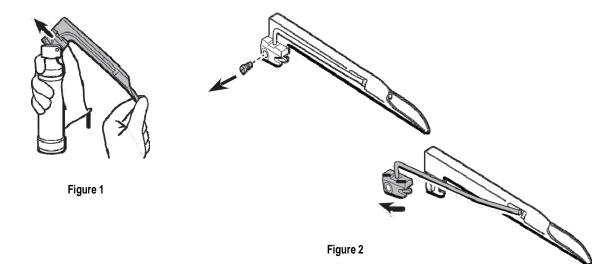
Reprocessing refers to procedures for cleaning and disinfection or sterilization of devices. The fiber optic laryngoscope blade assemblies must be reprocessed prior to first use and between each use using any of the following methods outlined in this document:

- Cleaning and cold solution high level disinfection
- Cleaning and gravity autoclave sterilization
- Cleaning and pre-vacuum autoclave sterilization
- Cleaning and Steris® Amsco® V-PRO® low temperature sterilization
- Cleaning and STERRAD[®] hydrogen peroxide gas plasma sterilization

Welch Allyn has validated these instructions as being capable of preparing its laryngoscope blade for re-use. The user must ensure that the reprocessing as actually performed by the user's personnel, with the user's equipment and materials, achieves the desired result. This may require validation and routine monitoring of the user's actual process.

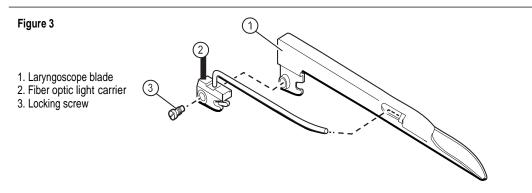
Cleaning instructions

Point of use:	1.	Separate blade assembly from handle and place the blade assembly into suitable containment for subsequent reprocessing. See Figure 1. Do not place the blade assembly with sharp devices.
	2.	Prevent the blade assembly from drying per facility practice (for example, use immersion, neutral pH enzymatic pre-cleaner or foam, or cover with a moist towel).
Preparation for decontamination:	1. 2.	Disassemble the blade assembly per Figure 2. Keep all blade components together to prevent loss.
	3.	Select a neutral pH enzymatic cleaner.
	4.	Prepare cleaning solution per cleaning solution manufacturer instructions.



Manual cleaning 1. Immerse all components in a neutral pH enzymatic cleaning solution as directed by solution process: manufacturer's instructions. 2. While components are immersed in the cleaning solution, use a soft-bristled brush to clean all component surfaces (the blade, retaining screw, and fiber optic light carrier) until all visible contamination is removed. 3. Thoroughly rinse all components in one of the following: potable filtered water, softened water, or per cleaning solution manufacturer instructions, or per facility instructions to remove cleaning solution. Drying: After cleaning, dry all components with a clean cloth or allow to air dry. Maintenance. 1. Inspect each component area (per Figure 3) for damage or Inspection and Testing deterioration. Also, inspect the following areas for prior to disinfection or deterioration: sterilization: hooks of laryngoscope blade (1) and fiber optic light carrier (2) light fiber of light carrier (2) threads of blade (1) and screw (3) WARNING: Discard any component that shows evidence of damage or deterioration. Contact Welch Allyn for component replacement. 2. Reassemble the blade assembly by reversing steps illustrated in Figure 2. 3. Attach blade assembly to a clean and disinfected test handle in known working condition. Ensure that: Blade assembly engages and locks onto handle. Blade assembly deploys into its locked position on handle AND the handle's lamp illuminates. Verify that light output is satisfactory. If the lamp fails to light or output is low, check or replace the fiber optic light carrier.

After cleaning, choose <u>either</u> cold solution high level disinfection method (page 4) <u>or</u> one of four sterilization methods (page 4-5).



Cold solution high level disinfection instructions

Preparation for decontamination: 1. Select a neutral pH ortho-phthalahyde (OPA) or glutaraldehyde disinfectant. 2. Prepare disinfecting solutions per disinfectant solution manufacturer instructions. Cold solution high level disinfection: 1. Disassemble the blade per Figure 2. 2. Immerse all components in disinfectant solution for the time duration specified by the disinfectant manufacturer to achieve high level disinfection. 3. Thoroughly rinse all components in one of the following: potable water, softened water, deionized water, or high purity water (for example, RO or distilled water) or per disinfectant solution manufacturer instructions, or per facility instructions to thoroughly remove disinfection solution. Drying: After cleaning, dry all components with a clean cloth or allow to air dry. Reassemble the blade assembly by reversing steps illustrated in Figure 2. Packaging: Package the clean and disinfected blade assembly per facility practice for return to service. Storage: Store packaged blade assembly per facility practice to allow device to remain clean, dry, and ready for service. End of reprocessing instructions for cold solution high level disinfection.			
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Assembly: Reassemble the blade assembly by reversing steps illustrated in Figure 2. Packaging: Package the clean and disinfected blade assembly per facility practice for return to service. Storage: Store packaged blade assembly per facility practice to allow device to remain clean, dry, and ready for service.		potable water, softened water, deionized water, or high purity water (for example, RO or distilled water) or per disinfectant solution manufacturer instructions, or per facility instructions to thoroughly remove disinfection	
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device to remain clean, dry, and ready for service.	Packaging:		
End of reprocessing instructions for cold solution high level disinfection.	Storage:	1	
	End of reprocessing ins	structions for cold solution high level disinfection.	

Sterilization instructions

After maintenance, inspection and testing, select <u>one</u> of the following four packaging, sterilization, and storage methods:

Gravity autoclave sterilization

Packaging: Package the blade assembly in an appropriately sized single pouch or in a wrap labeled as appropriate for the steam autoclave exposure parameters outlined below; package the blade assembly per facility practice in preparation for autoclave.

Gravity autoclave sterilization: Follow equipment manufacturer and facility procedures in the set-up and operation of autoclave equipment. Gravity autoclave settings are as follows:

Temperature: 132 C (270 F)

Exposure time: 15 minutes (wrapped)

Minimum dry time: 30 minutes

Storage: Store per facility practice to allow the packaged blade assembly to remain clean, dry and ready for service.

Pre-vacuum autoclave sterilization

Packaging: Package the blade assembly in an appropriately sized single pouch or in a wrap labeled as appropriate for the pre-vacuum autoclave exposure parameters outlined below; package the blade assembly per facility practice in preparation for autoclave.

Pre-vacuum autoclave sterilization: Follow equipment manufacturer and facility procedures in the set-up and operation of autoclave equipment. Pre-vacuum autoclave settings are as follows:

Temperature: 132 C (270 F)

Exposure time: 4 minutes (wrapped)

Minimum dry time: 20 minutes

Storage: Store per facility practice to allow the packaged blade assembly to remain clean, dry and ready for service.

Steris® Amsco® V-PRO® low temperature sterilization

Packaging: Package the blade assembly per facility practice in an appropriately sized single pouch or in a wrap labeled as appropriate for the Steris[®] Amsco[®] V-PRO[®] collection of low temperature sterilization equipment and exposure parameters.

Steris[®] Amsco[®] V-PRO[®] low temperature sterilization: Follow equipment manufacturer and facility procedures in the set-up and operation of Steris[®] Amsco[®] V-PRO[®] low temperature sterilization equipment. V-PRO[®] sterilization settings are as follows:

- V-PRO 1: Lumen cycle
- V-PRO 1 PLUS: Lumen cycle, non-Lumen cycle
- V-PRO maX: Lumen cycle, non-Lumen cycle, Flexible cycle

Storage: Store per facility practice to allow the packaged blade assembly to remain clean, dry and ready for service.

STERRAD® hydrogen peroxide gas plasma sterilization

Packaging: Package the blade assembly per facility practice in an appropriately sized single pouch, tray or in a container labeled as appropriate for the STERRAD[®] hydrogen peroxide gas plasma exposure parameters.

STERRAD® hydrogen peroxide gas plasma sterilization: Follow equipment manufacturer and facility procedures in the set-up and operation of the STERRAD® hydrogen peroxide gas plasma sterilization equipment. STERRAD® hydrogen peroxide gas plasma sterilization systems and cycles are as follows:

- STERRAD 100S: Standard (short) cycle
- STERRAD 100S: Long cycle (outside of US only)
- STERRAD NX: Standard, Advanced cycles
- STERRAD 100NX: Express, Standard cycles

Storage: Store per facility practice to allow the packaged blade assembly to remain clean, dry and ready for service.

End of reprocessing instructions for sterilization.

Maintenance instructions

Replace the fiber optic light carrier (REF: 6906X, 6921X, and 6806X)

To replace the fiber optic light carrier:

- 1. Remove the locking screw by rotating counterclockwise with a standard screwdriver.
- 2. Pull light carrier away from base of laryngoscope and slide distal end of carrier out of blade. See Figure 2.
- 3. Position new carrier and replace locking screw.
- 4. Rotate locking screw clockwise until secure.
- 5. Verify lamp and blade engagement/operation using a known working test handle.
- 6. Reprocess repaired assembly as appropriate per these instructions.



Specifications

Electrical:

For use with ISO 7376-3 (green code) handles only

For information about electromagnetic compatibility (EMC) see Welch Allyn website: http://www.welchallyn.com

Operating:

Storage/Transport:





Approvals:

Conforms to ASTM F 1195 and ISO-7376-3, IEC/EN 60601-1, IEC/EN 60601-1-2



The CE mark on this product indicates that it has been tested to and conforms with the provisions noted within the 93/42/EEC Medical Device Directive.



Complies with EMC Framework of Australia

Warranty: One year

Service Information:

For Technical Support or to obtain information about any Welch Allyn product, contact Welch Allyn Technical Support: www.welchallyn.com/support.



EC REP

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