

Reprocessing

Polaris Multimedia

WARNING

To properly use this medical device, read and comply with the instructions for use and this supplement.

Handles

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Contents

Supplement to the instructions for use	4
Reprocessing	5
Safety instructions	5
Information on reprocessing	5
Classifications for reprocessing	6
Before reprocessing	8
Validated reprocessing procedures	11
Surface disinfection with cleaning	11
Manual cleaning followed by disinfection by immersion	12
Machine cleaning with thermal disinfection	14
Steam sterilization	15
Service life of the handle	16
Other agents and reprocessing procedures	17
After reprocessing	18

Supplement to the instructions for use

WARNING

To properly use this medical device, read and comply with the instructions for use and this supplement.

Instructions for use	Part number	Edition
Polaris Multimedia	1571949	1 – 2021-08 and higher

- Keep this supplement with the instructions for use.

This supplement updates the "Reprocessing" chapter in the instructions for use.

Reprocessing

Safety instructions

WARNING

Risk due to inappropriately reprocessed products

Reusable products must be reprocessed, otherwise there is an increased risk of infection.

- Follow the infection prevention policies and reprocessing regulations of the health-care facility.
- Follow the national infection prevention policies and reprocessing regulations.
- Use validated procedures for reprocessing.
- Reprocess reusable products after every use.
- Follow the manufacturer's instructions for cleaning agents, disinfectants, and reprocessing devices.

WARNING

Risk of infection or danger of a falling handle

After reprocessing, the sterilizable handle must be checked for signs of wear, e.g., cracks, deformation, discoloration or peeling.

If there are signs of wear, a new handle must be used.

WARNING

Risk of damage to the device

The device consists in part of materials that are not resistant to certain components of surface disinfectants.

It is essential to follow the instructions in this chapter.

Information on reprocessing

Follow the national infection prevention policies and reprocessing regulations.

Follow the infection prevention policies and reprocessing regulations of the health-care facility (e.g., concerning the reprocessing cycles).

Classifications for reprocessing

Classification of medical devices

The classification depends on the intended use of the medical device. The risk of infection transmission through the application of the product to the patient without proper reprocessing is the basis of the Spaulding classification.

Classification	Explanation
Non-critical	Components that come into contact only with skin that is intact
Semi-critical	Components that carry breathing gas or come into contact with mucous membranes or pathologically altered skin
Critical	Components that penetrate skin or mucous membranes or come into contact with blood

Classification of device-specific components

The following classification is a recommendation from Dräger.

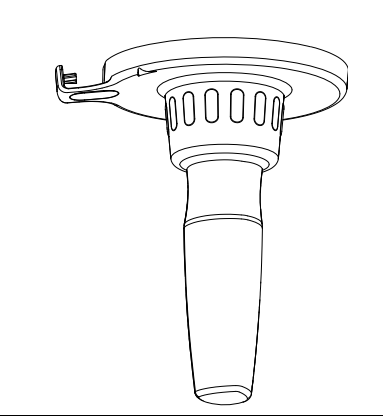
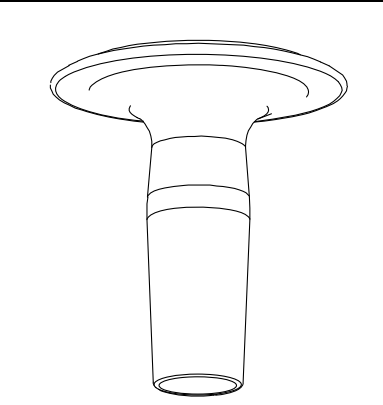
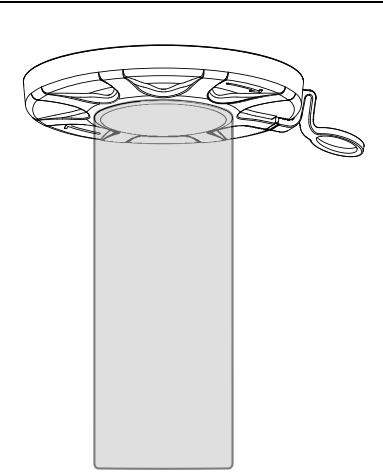
Non-critical

- Device surface

Critical

- Sterilizable handle E
- Sterilizable handle

Component overview (handles)

Accessories	Classification	Order no.	Part no.	
Sterilizable handle E	Critical	G36993	G29662	
Sterilizable handle (with button)	Critical	G92099	G95413	
Dräger Polaris disposable handle, Duo	Critical	MP05700	-	
Dräger Polaris disposable handle, Solo	Critical	MP05701	-	

Before reprocessing

Observe before disassembly

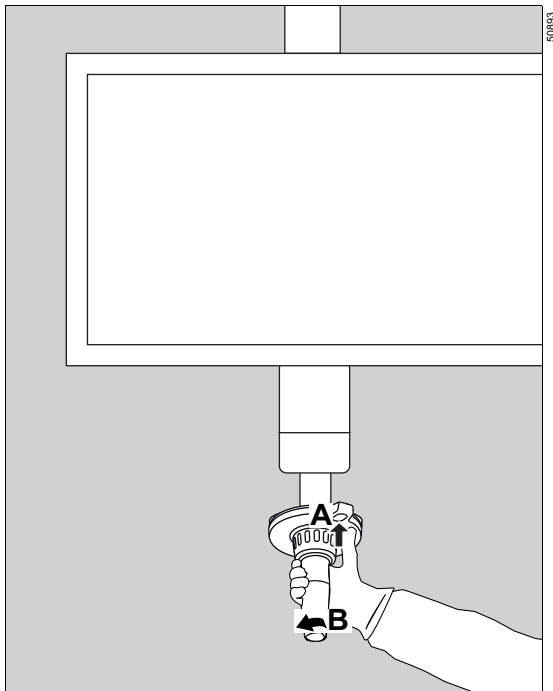
- 1 Switch off the device and all devices connected to it.
- 2 For the Polaris Mobil version: Disconnect all power plugs.

Device-specific components

The device-specific components must be removed from the device and, if necessary, disassembled.

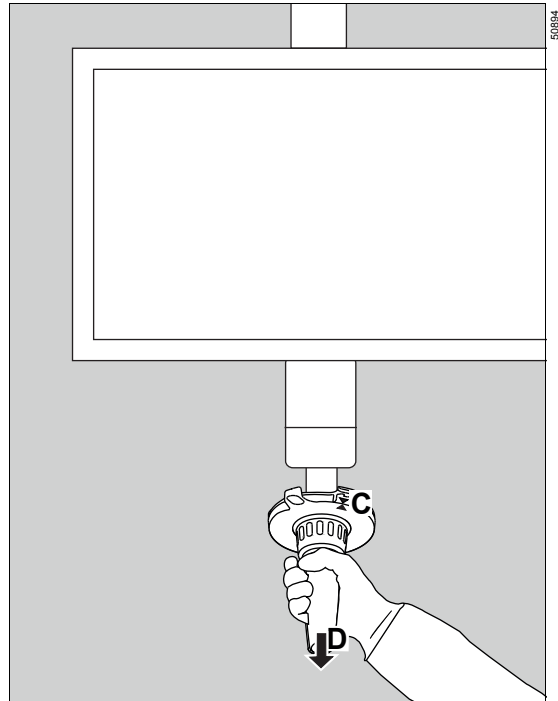
Removing the sterilizable handle E on the display mount

The handle is located below the display mount and is removed from the inner handle by pulling.



- 1 Take hold of the handle section and press the locking mechanism (A).

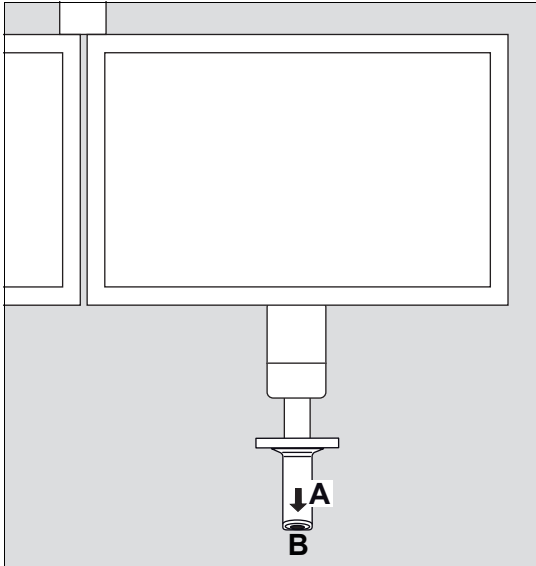
- 2 Keep the locking mechanism pressed and turn the handle counterclockwise (B) until the markers (C) line up.



- 3 Pull the handle (D) down to remove it.

Removing the sterilizable handle on the display mount

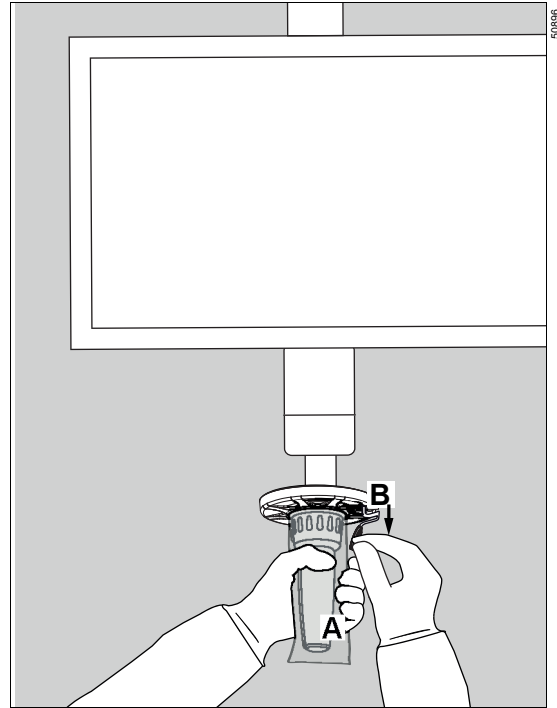
The handle is located below the display mount and is removed from the inner handle by pulling.



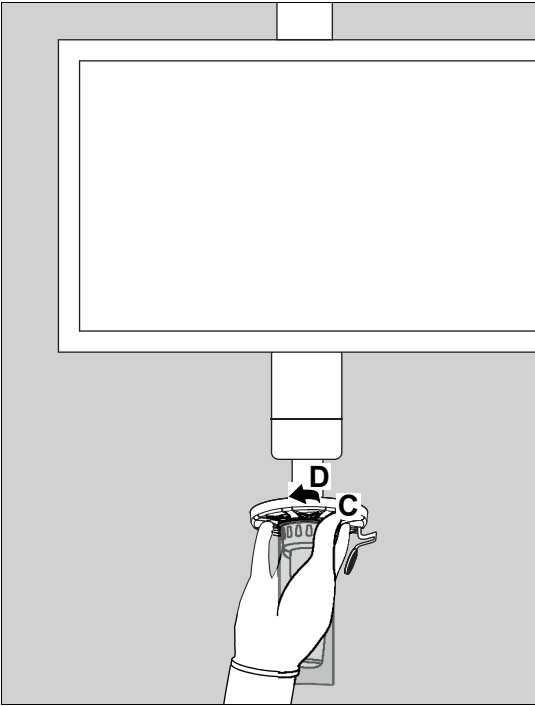
- Hold the housing of the display mount.
- 1 Take hold of the handle (A).
- 2 Push and hold down the button (B) at the lower end of the handle and pull off the handle.

Removing the Dräger disposable handle on the display mount

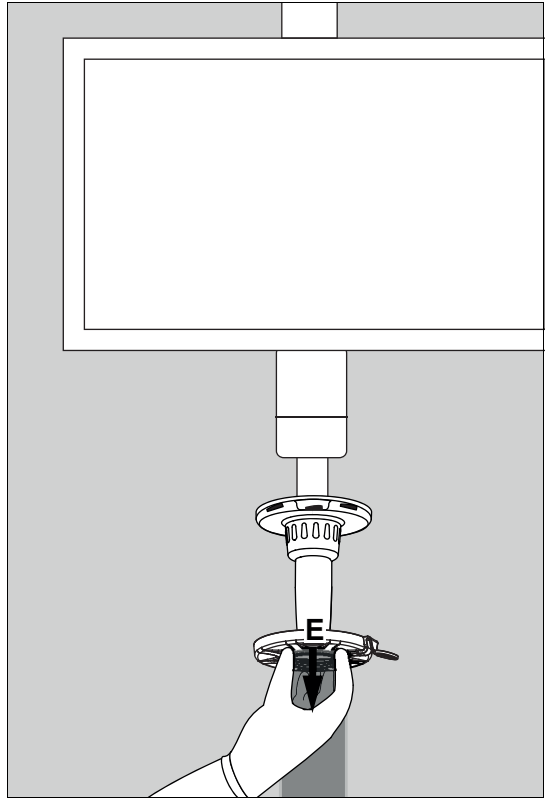
The disposable handle is located below the display mount and is removed from the inner handle by pulling.



- 1 Take hold of the disposable handle (A).
- 2 Pull the locking mechanism (B) on the disposable handle until the entire perforation on the locking mechanism is ripped open. The locking mechanism is intended to ensure single use of the disposable handle and is unusable after pulling.



- 3** Hold the disposable handle by the recessed grips (C) and turn it counterclockwise (D).



- 4** Pull the disposable handle (D) down to remove it.
- Dispose of the disposable handle in accordance with the applicable infection prevention policy and disposal regulations of the hospital.

Validated reprocessing procedures

Overview of the reprocessing procedures of the components

Components	Surface disinfection with cleaning	Manual cleaning followed by disinfection by immersion	Machine cleaning with thermal disinfection	Steam sterilization
Device surfaces	Yes, see page 11	No	No	No
Sterilizable handle E	No	Yes, see page 12	Yes, see page 14	Yes, see page 15
Sterilizable handle	No	Yes, see page 12	Yes, see page 14	Yes, see page 15

Surface disinfection with cleaning

Surface disinfectant	Manufacturer	Concentration	Contact time
Dismozon pur/ plus	BODE Chemie	1.6 %	15 min

Prerequisites:

- The surface disinfectant has been prepared in accordance with the manufacturer's instructions.
- Observe the manufacturer's instructions, e.g., regarding shelf life or application conditions.
- An uncontaminated, lint-free cloth soaked in disinfectant is used for the cleansing surface disinfection.

WARNING

Risk due to penetrating liquid

Penetrating liquid may cause the following:

- Damage to the device
- Electric shock
- Device malfunctions

Ensure that no liquid penetrates the device.

Cleaning

Procedure:

- 1 Wipe off obvious soiling using a disposable cloth (or a similar cloth) soaked in disinfectant solution and dispose of this.
- 2 Wipe all areas. After that, there must no longer be any soiling visible.

Surface disinfection

- 3 Wipe cleaned surfaces again to visibly wet all surfaces to be disinfected with disinfectant solution.

- 4 Wait for the contact time of the disinfectant.
- 5 At the end of the contact time, moisten a new germ-free and lint-free cloth with water (at least drinking water quality).
- 6 Wipe all surfaces until no remains of the surface disinfectant, such as foam residues or streaks, are visible.
- 7 Wait until the surfaces are dry.
- 8 Check the surfaces for visible damage and replace the product if necessary.

Manual cleaning followed by disinfection by immersion

Components:

- Sterilizable handle E

	Manufac- turer	Concen- tration	Contact time
Cleaning agent:			
Neodisher LM 2	Dr. Wei- gert	2 %	10 min
Disinfectant:			
Korsolex extra	BODE Chemie	3 %	15 min

- Sterilizable handle

	Manufac- turer	Concen- tration	Contact time
Cleaning agent:			
Neodisher LM 2	Dr. Wei- gert	2 %	20 min
Disinfectant:			
Korsolex extra	BODE Chemie	4 %	60 min

Manual cleaning

Prerequisites:

- The cleaning agent has been prepared according to the manufacturer's instructions.

Procedure:

- 1 Place the components in the cleaning agent.
- 2 Swish the components back and forth. Make sure the cleaning agent reaches all surfaces and interior spaces.
- 3 Remove the components from the cleaning agent and brush thoroughly.
- 4 Only applies to the "sterilizable handle (with push button)" component: Thoroughly flush the interior of the handle with a disposable syringe, especially in the area of the push button.
- 5 Then return the components to the cleaning agent. Observe the contact time.
- 6 At the end of the contact time, brush the components thoroughly again.
- 7 After the contact time, rinse the components with water (at least drinking water quality) until no residues of the cleaning agent are visible.
- 8 Shake out residual water thoroughly. Allow the components to dry completely.
- 9 Check the components for visible soiling and repeat steps 1 through 8 if necessary.
- 10 Check the components for visible damage and replace if necessary.

Disinfection by immersion

Prerequisites:

- The disinfectant has been prepared according to the manufacturer's instructions.

Procedure:

- 11 Place the components in the disinfectant.
- 12 Swish the components back and forth at the beginning of the contact time. Make sure the disinfectant reaches all surfaces and interiors.
- 13 Only applies to the "sterilizable handle (with push button)" component: Thoroughly flush the interior of the handle with a disposable syringe, especially in the area of the push button.
- 14 Observe the contact time.
- 15 After the contact time, rinse the components with water (at least drinking water quality) until no residues of the disinfectant are visible.

16 Check the components for visible damage and replace if necessary.

17 Shake out residual water thoroughly. Allow the components to dry completely.

Machine cleaning with thermal disinfection

Use a washer-disinfector that meets the requirements of the standard ISO 15883. Follow the manufacturer's instructions for the washer-disinfector.

Components:

- Sterilizable handle E
- Sterilizable handle

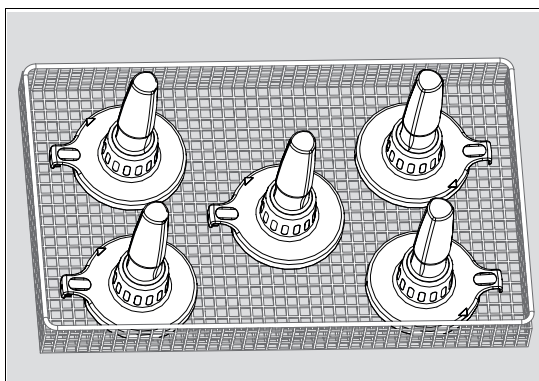
Step	Agent	Manufacturer	Concentration	Temperature	Contact time
Cleaning	Neodisher MediClean	Dr. Weigert	According to the manufacturer's instructions	55 °C (131 °F)	10 min
	Neodisher MediClean Forte	Dr. Weigert	According to the manufacturer's instructions	55 °C (131 °F)	10 min
Disinfecting	–	–	–	90 °C (194 °F)	at least 5 min
Drying	–	–	–	–	Drying time depends on the load

Prerequisites:

- The washer-disinfector has been prepared according to the manufacturer's instructions.

Positioning the components (handles) in the load carrier

Procedure:



- 1 Position the components so that they are stable.
- 2 Ensure the following:
 - All surfaces and interiors can be completely rinsed.
 - The water can drain off freely.

Performing reprocessing

Procedure:

- 1 Select a cycle.
- 2 When the cycle has ended, check the components for visible soiling and repeat the cycle if necessary.
- 3 Check the components for visible damage and replace if necessary.

Steam sterilization

Components:

- Sterilizable handle E
- Sterilizable handle

Prerequisites:

- The components are cleaned, disinfected, and dry, and have been provided with a suitable sterile barrier system.
- Use a steam sterilizer that meets the requirements of the standard ISO 17665. Dräger recommends steam sterilization with fractionated vacuum.

Procedure:

- 1 Sterilize the components (minimum 132 °C (269.6 °F), 4 min).
- 2 Check the components for visible damage and replace if necessary.

Storage and transport

After reprocessing, there are no special requirements for storage and transport of the product. However, the following must be observed:

- Store dry and free of dust
- Avoid recontamination and damage during transport

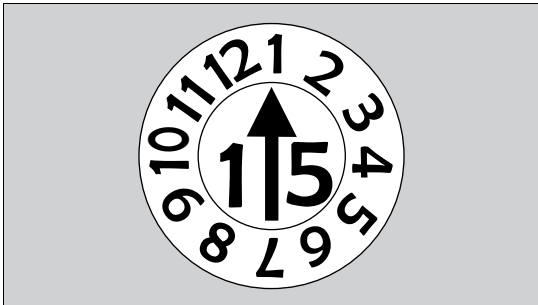
All further information on storage and transport included in the accompanying documents must be observed.

Service life of the handle

Components:

- Sterilizable handle E
- Sterilizable handle

There is an identification mark on the upper side of the handle which shows the year and month of manufacture of the handle.



The identification mark here shows January 2015 as an example of the date of manufacture.

The number in the inner circle corresponds to the year of manufacture.

15 = 2015

The arrow points to the month of manufacture.

1 = January

The date of manufacture has no effect on the service life of the handle.

The handle can undergo up to 300 reprocessing cycles. After that, it must be disposed of.

NOTE

Cleaning methods based on alkaline agents (pH values >10) can increase material wear to the handle and thus shorten its service life.

NOTE

Use and frequent sterilization cause wear to the handle. In the event of material fatigue such as cracking and/or discoloration, the handle must be replaced.

Other agents and reprocessing procedures

Disinfectants

Use nationally approved disinfectants suitable for the respective reprocessing procedure and field of application.

Surface disinfectants

The manufacturers of the surface disinfectants have verified at least the following spectra of activity:

- Bactericidal
- Yeasticidal
- Virucidal or virucidal against enveloped viruses

Follow the manufacturer's instructions for surface disinfectants.

The following surface disinfectants were compatible with the material at the time of testing:

Class of active ingredient	Surface disinfectant	Manufacturer	Listing
Chlorine-releasing agents	Clorox Professional Disinfecting Bleach Cleaner	Clorox	EPA ¹⁾
	Dispatch Hospital Cleaner Disinfectant Towels with Bleach		
	Actichlor plus	Ecolab	–
	Chlor-Clean Tablets	helix Solution	ARTG ²⁾

Class of active ingredient	Surface disinfectant	Manufacturer	Listing
Oxygen-releasing agents	Descogen Liquid	Antiseptica	CE
	Descogen Liquid r.f.u.		
	Oxygenon Liquid r.f.u.		
	Dismozon plus	BODE Chemie	CE
	Oxycide	Ecolab USA	EPA
	Perform	Schülke & Mayr	CE
	SteriMax Wipes	Aseptix	CE
	Incidin OxyWipes	Ecolab USA	CE
	Rubysta	Kyorin (Japan)	–
	Rely+On Virkon	LANX-ESS Corporation	EPA

Class of active ingredient	Surface disinfectant	Manufacturer	Listing
Quaternary ammonium compounds	acryl-des ³⁾	Schülke & Mayr	CE
	Mikrozyd alcohol free liquid ³⁾		
	Mikrozyd alcohol free wipes ³⁾		
	Mikrozyd sensitive liquid ³⁾		
	Mikrozyd sensitive wipes ³⁾		
	Cleanisept Wipes Maxi	Dr. Schumacher	CE
	Surfa'Safe Premium	ANIOS Laboratories	CE
	Wip'Anios Excel		
Tuffie 5	Ver-nacare	ARTG	

- 1) United States Environmental Protection Agency
- 2) Australian Register of Therapeutic Goods
- 3) Virucidal against enveloped viruses

Dräger states that oxygen-releasing agents and chlorine-releasing agents may cause color change in some materials. Color change does not indicate that the product is not functioning correctly.

Other surface disinfectants are used at one's own risk.

After reprocessing

Preparation before next use of device

Fitting the sterilizable handle E to the display mount

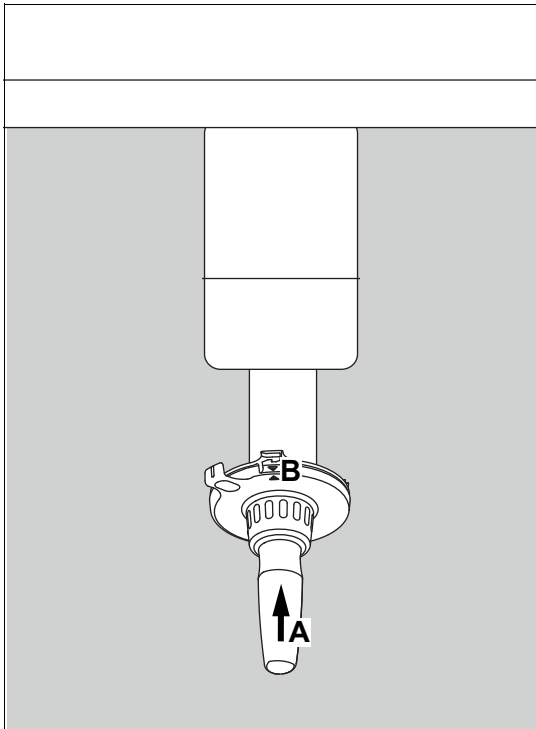
WARNING

Risk of infection

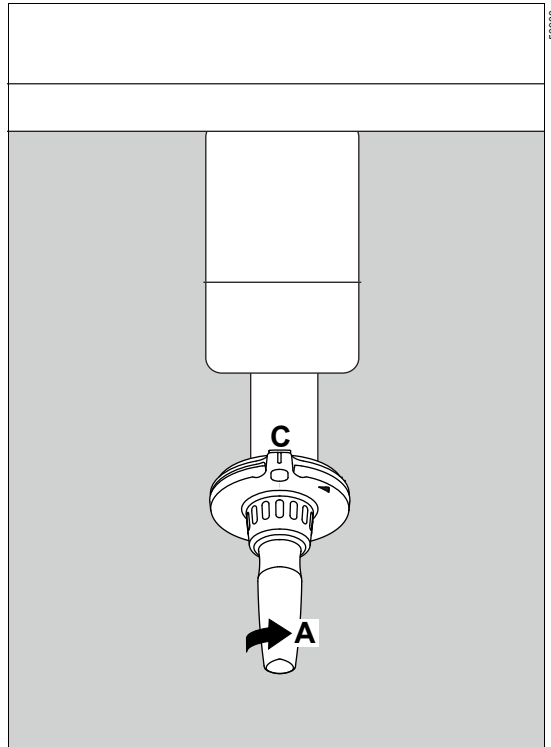
Personnel and patient may become infected by a non-sterile handle.

Use only sterile handles.

Immediately before surgery, fit the handle under sterile conditions as follows:



- 1 Fit the handle (A) on the inner handle so that the markers (B) line up.



- 2 Turn the handle (A) clockwise until the locking mechanism (C) engages audibly.
- 3 Check that the handle is securely attached. Turn the handle counterclockwise to do this.

WARNING

Risk of patient injury

The sterilizable handle E can fall down into the operating field if it is not engaged properly.

The handle must be checked for secure attachment after it has been fitted to the inner handle.

Fitting the sterilizable handle to the display mount

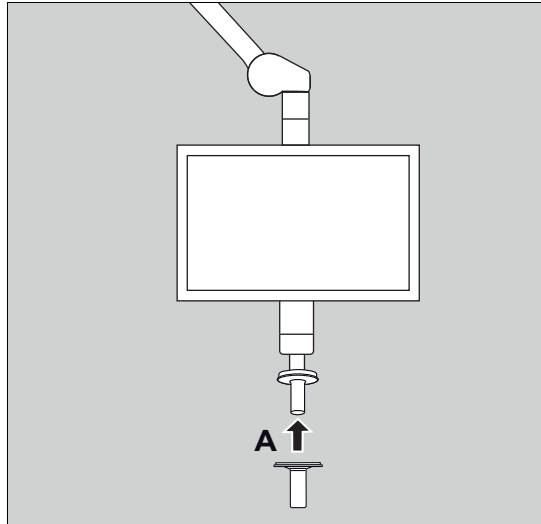
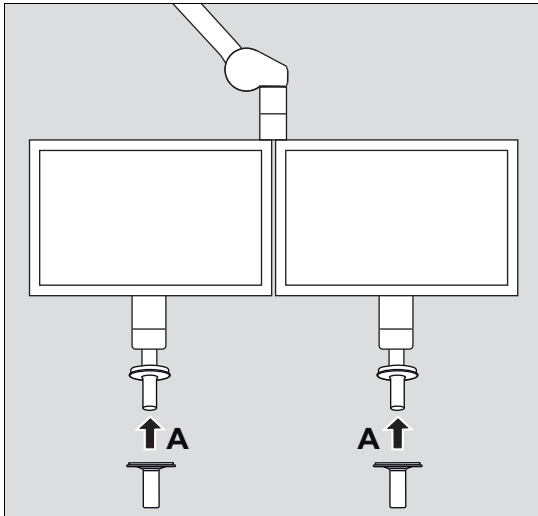
WARNING

Risk of infection

Personnel and patient may become infected by a non-sterile handle.

Use only sterile handles.

Immediately before surgery, fit the handle under sterile conditions as follows:



- 1 Push the handle (A) onto the inner handle. The handle must engage audibly. If necessary, turn the handle slightly to the right or left.
- 2 Check that the handle is securely attached. To do so, pull in the direction opposite to that used to attach it.

WARNING

Risk of patient injury

The sterilizable handle can fall down into the operating field if it is not engaged properly.

The handle must be checked for secure attachment after it has been fitted to the inner handle.

Fitting the Dräger disposable handle to the display mount

Safety information

- The disposable handle is intended solely for single use. The disposable handle must not be reused, reprocessed, or sterilized.
- The membrane on the disposable handle must not exhibit any cracks, holes, or other damage.
- The inner handle must be free from damage.
- To prevent soiling of the disposable handle, do not unpack it until immediately before surgery.

- Do not use the disposable handle if the packaging is damaged.
- Do not use a knife to open the packaging for the disposable handle.

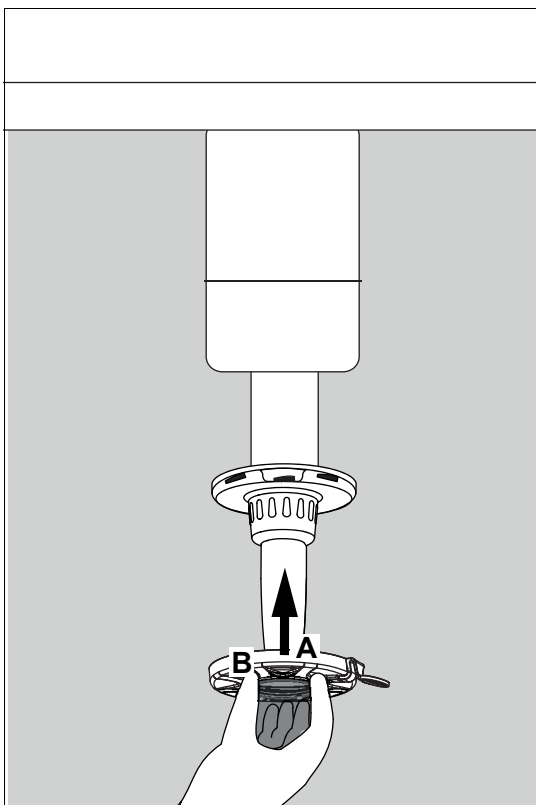
WARNING

Risk of infection

Reuse of the disposable handle can lead to cross-infection.

The disposable handle is intended solely for single use. The disposable handle must not be reused.

Immediately before surgery, fit the disposable handle under sterile conditions as follows:



- 1 Remove the disposable handle from its packaging. Do not separate the membrane from the disposable handle after unpacking.

- 2 Hold the disposable handle (A) by the recessed grips (B) and fit it onto the inner handle. When doing this, avoid trapping any air between the disposable handle and the inner handle.

WARNING

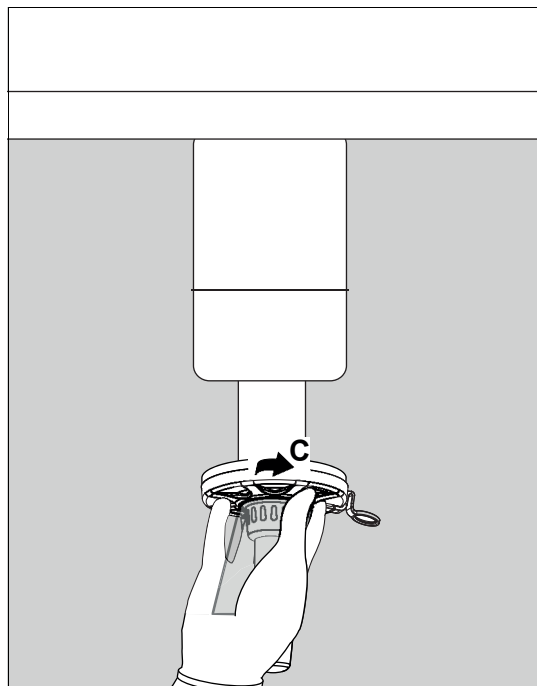
Risk of infection

If the inner handle is not free from damage, it may damage the disposable handle.

The inner handle must be free from damage.

NOTE

To facilitate fitting the disposable handle, non-sterile OR personnel may hold the light steady.



- 3 Turn the disposable handle clockwise (C) until it can be felt to engage.

- 4 Check that the disposable handle is securely attached. To do this, hold the disposable handle by the recessed grips and turn it counterclockwise.

WARNING

Risk of patient injury

The disposable handle can fall down into the operating field if it is not engaged properly.

The disposable handle must be checked for secure attachment after it has been fitted to the inner handle.

- 5 If necessary, remove any air trapped in the membrane by moderate squeezing of the membrane.

Checking the operational readiness

Prerequisites:

- The device has been assembled and prepared so that it is ready for operation.

Procedure:

- 1 Check the operational readiness, see instructions for use, chapter "Assembly and preparation".

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Dräger reserves the right to make modifications
to the medical device without prior notice.

