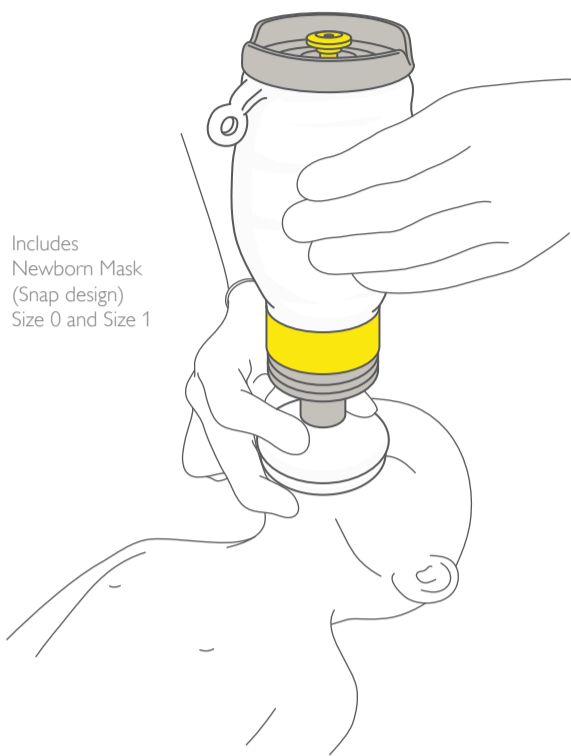


# User Guide

## Laerdal

### Upright Resuscitator

REUSABLE - AUTOCLAVABLE



Includes  
Newborn Mask  
(Snap design)  
Size 0 and Size 1

REF Cat. no. 8560533 QTY 1 each



## User Guide

### Intended Use

Laerdal Upright Resuscitator ("Upright") is a self-inflating, manual, reusable resuscitator intended for newborns and infants up to 10 kg body mass who require respiratory support.

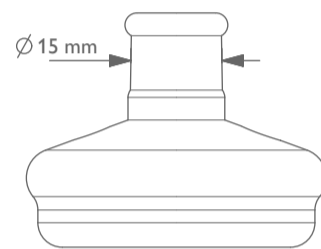
Upright can provide supplemental oxygen only when used with the accessory Oxygen Kit.

Upright may be reused provided reprocessing procedures (page 2) are followed between each patient use. It must be cleaned and disinfected before first use.

### Using Upright

Orientation: Upright is operated as a normal resuscitator, with the bag having a vertical stance over the mask.

Newborn Mask - Snap design: The mask fits with standard 15 mm inner-diameter conical connectors, as defined by ISO 5356-1. Check fit before use with other devices. When used with Upright, the mask attaches with a snap fit when pressed completely into place.



Pressure release valve: Upright has a pressure release valve ("pop-off") which limits the airway pressure to 30-45 cmH<sub>2</sub>O. A hissing sound can be heard when the valve opens. If higher airway pressure is needed, press downwards on the valve with the index finger while squeezing the bag.

Vomitus: If the patient valve becomes contaminated with vomitus, clear the valve by shaking Upright and forcefully squeezing the bag to expel the vomitus. If it does not clear, disassemble the patient valve (see page 2), rinse it in water and then reassemble it.

If any components are loose, tighten or reassemble the device and test in accordance with page 2.

### Warnings

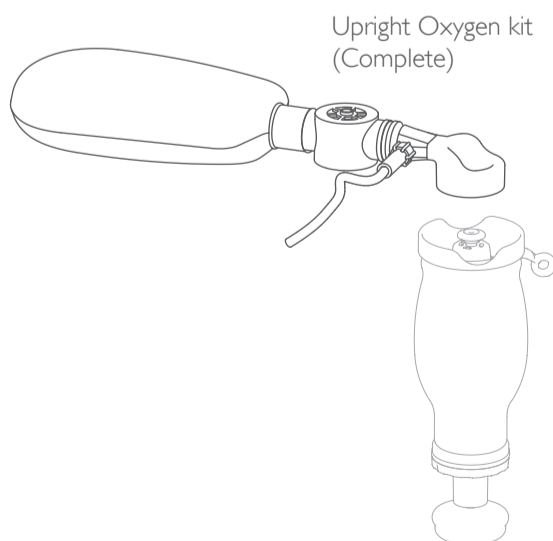
Upright should only be used by persons who have received sufficient training in its use. Incorrect operation of the Upright can be hazardous.

Do not use the Upright if you have any reason to be concerned about its functionality.

For proper function, ensure that Upright components are not mixed and confused with similar-looking non-Laerdal components. All Upright components are marked LAERDAL, as shown on page 2.

## Accessories and Spare parts

Cat. no	Description
856156	Newborn Mask - Snap design – Size 0*
856157	Newborn Mask - Snap design – Size 1* * 10 pcs
8561733	Oxygen kit (Complete) includes Oxygen Adaptor, Valve, Reservoir Bag and Tubing
846131	Oxygen Reservoir Bag and Tubing
856155	Upright Valves and Membranes kit* (Lip Valve, Inlet Valve Disc Membrane) * 10 pcs



## Important Product Information

### Regulatory

2460

This product is in compliance with the essential requirements of Council Directive 93/42/EEC as amended by Council Directive 2007/47/EC.

### Technical Information

Meets ISO 10651-4:2002/EN ISO 10651-4:2009, Lung ventilators – Particular requirements for operator-powered resuscitators.

Patient port on Newborn Mask Snap design fit standard 15/22 mm connector

Operating temperature	-18 °C to 50 °C
Storage temperature	-40 °C to 60 °C
Expiratory resistance	<2.5 cm H <sub>2</sub> O at 5 LPM
Inspiratory resistance	<0.5 cm H <sub>2</sub> O at 5 LPM
Tidal volume	>150 ml
Dead space	4 ml (water volume)
External dimensions (with Newborn Mask size 1)	Approximately 72 mm x 85 mm x 217 mm
Mass (with Newborn Mask size 1)	Approximately 190 grams

### Materials

Hard plastic components: Polysulfone (PSU)

Soft plastic components: Silicone rubber

Spring: Stainless steel

Not made with natural rubber latex.

### Manufacturer Information

Global Warranty: See [www.laerdal.com](http://www.laerdal.com)

Manufactured in China for:  
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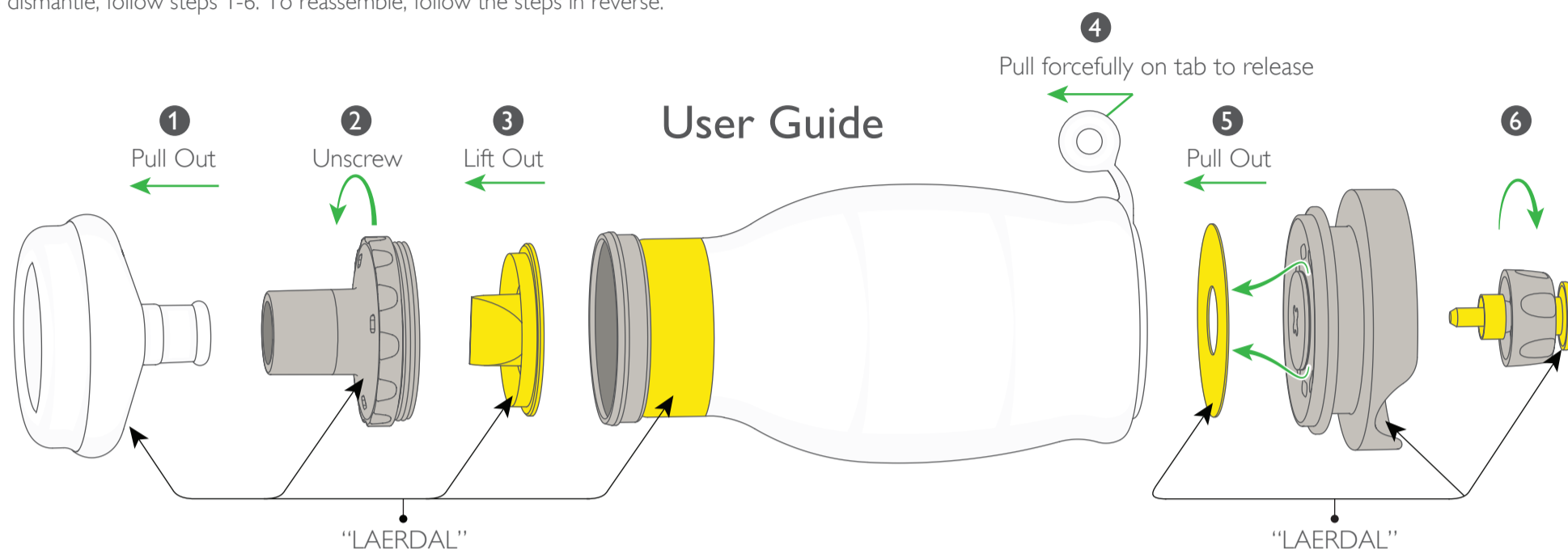
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## Reprocessing instructions

### 1. Product overview

To dismantle, follow steps 1-6. To reassemble, follow the steps in reverse.



Do not disassemble parts beyond the steps shown. For proper function, make sure to only use parts marked LAERDAL (locations as shown above).

### 2. Cleaning and Disinfection procedure

1. Dismantle	2. Clean	3. Disinfect by one of the methods		4. Dry and Inspect	5. Assemble and Test
<p>Always dismantle Upright before cleaning.</p>	<ol style="list-style-type: none"> <li>Wash all parts in a clean tray with clean water and mild soap.</li> <li>Use a scrub or brush to remove any soil.</li> <li>Rinse parts in clean water to remove all soil and soap.</li> <li>Repeat above steps until parts are clean.</li> </ol>	<p>100 °C 10 minutes</p> <p><b>Boiling*</b></p> <p>Boil all parts in clean water for 10 min.</p>	<p>OR</p> <p>Steam 136 °C 10-20 minutes</p> <p><b>Autoclaving</b></p> <p>Sterilize by steam autoclaving at 136 °C and 2.0 kg/cm<sup>2</sup> for 10-20min.</p>	<ol style="list-style-type: none"> <li>Dry all parts.</li> <li>Visually inspect each part for damage and cleanliness / mineral deposits.</li> <li>Remove damaged or unclean parts from service.</li> </ol>	<p>Reassemble Upright.</p> <p>Test using steps shown below.</p>

\*Validated at approximately sea-level pressure

### 3. Testing before use

1. Lip valve function	2. Pressure release valve	3. Inlet valve opening	4. Product sealing
<p>Squeeze the bag. Check that the yellow valve opens and closes with every squeeze.</p>	<p>Seal the mask against your hand. Squeeze the bag forcefully. Check that air is released from the pressure release valve.</p>	<p>Keep the mask sealed against your hand. Release the squeezed bag. Check that the bag re-expands without resistance.</p>	<p>Check that the silicone bag's lip is not twisted or tucked under.</p> <p>Keep the mask sealed against your hand. Press the pressure release valve down. Squeeze the bag and check that there is no leakage.</p>



If any of the above tests fail: Dismantle Upright, inspect that components, reassemble Upright and repeat the complete "Testing before use" procedure (Section 3). Page 2