

## ACCESSORIES

Cat.no	Description
846141	Oxygen kit (NeoNatalie): Oxygen Reservoir Bag, Valve, Tubing and User Guide
850500	Expiration Diverter (OD 30 mm)

## SPARE PARTS

Cat.no	Description
846130	Oxygen Reservoir Bag and Tubing (NeoNatalie)
846145	Valves/Membranes, Complete set (NeoNatalie)
846136	Silicone Mask no. 0 (NeoNatalie) Qty. 10*
846137	Silicone Mask no. 1 (NeoNatalie) Qty. 10*
540103	LSR Lip Valve

\*Masks are bulk packed: 10 masks in 1 polybag.



Oxygen kit  
846141

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## CLINICAL INDICATIONS

### Device Description

The NeoNatalie Resuscitator (NNR) is a self-inflating manual resuscitator that is intended for patients requiring total or intermittent ventilatory support.

### Indication for Use

The NNR is intended for patients requiring total or intermittent ventilatory support. Ventilation is possible with or without supplemental oxygen.

### Intended Use

The NNR provides positive pressure ventilation and allows spontaneous breathing with a face mask or an artificial airway. It is intended for newborns and infants up to 5 kg.

### Intended Users

The NNR is intended to be used by healthcare professionals trained in delivering ventilatory support and in the use of manual resuscitators.

### Clinical Benefits

Positive impact on clinical outcome, by respiratory support that reduces probability of adverse outcomes, such as morbidity and mortality caused by hypoxia.

### Clinical Outcome

Desired outcome of ventilation is oxygenation of the patient, often evaluated using  $\text{SpO}_2$ ,  $\text{EtCO}_2$ , blood gas analysis or other method of analysis.

### Known Side Effects

Gastric Insufflation  
Oxygen Toxicity

### Contraindications

No known contraindications for use.

## IMPORTANT INFORMATION

Read this User Guide and become familiar with the operation and maintenance of the product prior to use. Use the product only as described in this User Guide.

### Warnings and Cautions

A Warning states a condition, hazard, or unsafe practice that can result in serious personal injury or death.

A Caution states a condition, hazard, or unsafe practice that can result in minor personal injury or damage to the product.

### Notes

Important information about the product or its operation.

### Warnings

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

## SPECIFICATIONS

Conditions	
Operating Conditions	Temperature: -18 °C to 50 °C (-0.4 °F to 122 °F) Humidity: 15% to 95% RH
Storage Conditions	Temperature: -40 °C to 60 °C (-40 °F to 140 °F) Humidity: 15% to 95% RH
Inspiratory resistance	<0.5 cm H <sub>2</sub> O at 5 LPM
Expiratory resistance	<2.5 cm H <sub>2</sub> O at 5 LPM
Patient Connector (conical)	15 mm inner diameter, 22 mm outer diameter
External dimensions (with Mask)	Approx. 220 mm x 70 mm x 120 mm (8.66 x 2.76 x 4.72 inches)
Mass (with Mask size 1)	Approximately 170 grams (6 ounces)

### Lifetime Parameters

Shelf-life	5 years
Expected Service Life	50 cycles of reprocessing

### Delivered volume range:

Tidal volume 161 ml\* +/- 15 ml (standard deviation) at room temperature

\* In sub-zero temperatures, the tidal volume may be approx. 20% less.

### Material Chart

Hard plastic components	Polysulfone (PSU)
Soft plastic components	Silicone rubber (SI)
Spring	Stainless steel

## REGULATORY

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

### Symbol Glossary

 MD	Medical Device
 CE 2460	This medical device complies with the general safety and performance requirements of Regulation (EU) 2017/745 for medical devices.
 LATEX	Not made with natural rubber latex

### Warranty

Refer to the Laerdal Global Warranty for terms and conditions. For more information visit [www.laerdal.com](http://www.laerdal.com).



## CLINICAL USE

### Caution

The resuscitator components must be cleaned and disinfected before first patient use.

### To Use

1. Connect a suitable face mask.
2. Connect to external  $\text{O}_2$  source, if applicable.
3. Place mask over face and check for seal.
4. Squeeze the Ventilation Bag in accordance to clinical protocol.
5. Observe patient chest rise during ventilation.
6. Allow patient to exhale.
7. Stop ventilation as required by clinical protocol.

### Pressure Release Valve:

The resuscitator has a pressure release (pop-off) valve which releases air when pressure to the patient exceeds 30-40 cm H<sub>2</sub>O. A hissing sound can be heard when the valve opens. This valve may be overridden if more pressure to the patient is needed.

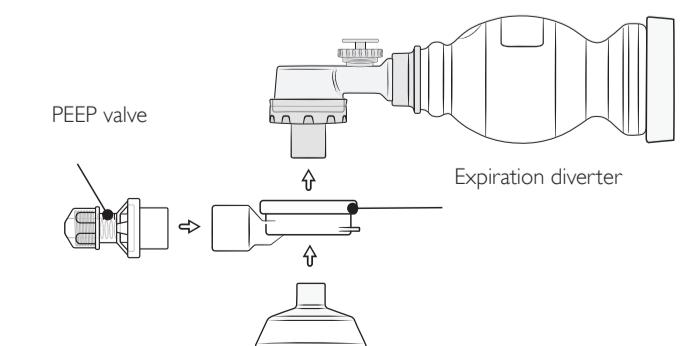
To override: press downwards on the Pressure Release Valve with your index finger.

For ventilation training with the NeoNatalie Newborn Simulator, use the largest mask (no.1). For ventilation of a real patient, use the mask size that provides the best seal to the patient's face.

If the Patient Valve becomes contaminated with vomit, remove from patient and shake free any contaminant and squeeze the ventilation bag several times to expel the contaminant. If contaminant does not clear; disassemble the Patient Valve and rinse. If any components are loose, tighten or reassemble the device and test in accordance.

The resuscitator may be fitted with the Laerdal LSR Expiration Diverter. Attach firmly to the Patient Port. Attach a suited PEEP valve if PEEP is indicated for the patient.

Check PEEP levels regularly with a manometer.



# NeoNatalie Resuscitator



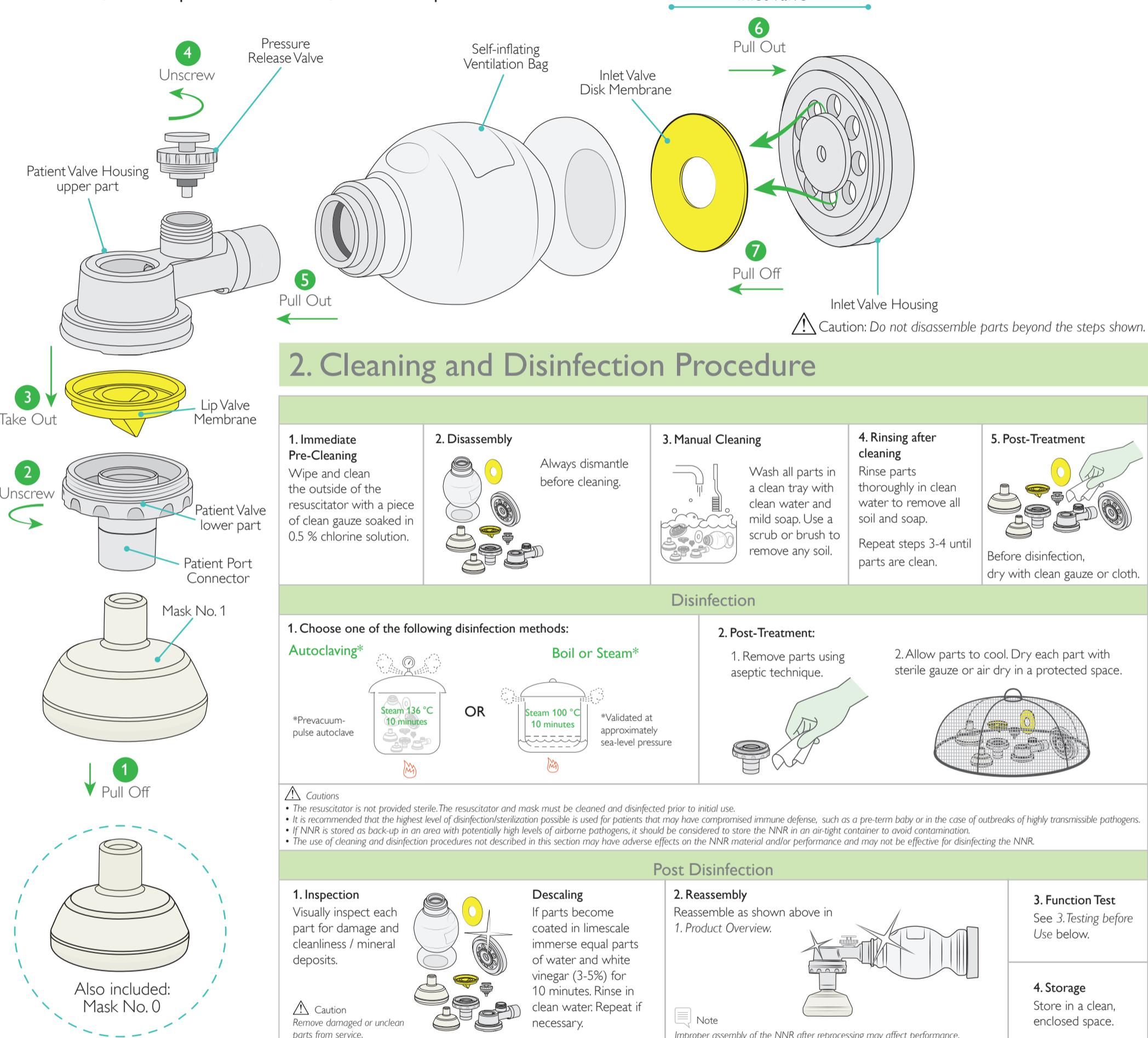
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## Reprocessing instructions

### 1. Product Overview

To disassemble, follow steps 1-7. To reassemble, follow the steps in reverse.



### 3. Testing before Use

Inspect and test valve function to ensure proper operation of the NNR prior to patient use. To ensure proper operation, test valve functions after cleaning, disinfection and reassembly.

1. Lip Valve function	2. Pressure Release Valve	3. Inlet Valve opening	4. Product sealing
<p>Squeeze the bag. Check that the Lip Valve Membrane valve opens and closes with every squeeze.</p>	<p>Seal the mask with a hand. Squeeze the bag forcefully. Check that air is released from the Pressure Release Valve.</p>	<p>Keep the mask sealed against hand. Release the squeezed bag. Check that the bag re-expands without resistance.</p>	<p>Keep the mask sealed against the 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 NeoNatalie Resuscitator, inspect the components, reassemble and repeat the complete procedure in 3. Testing Before Use.
- If NeoNatalie Resuscitator fails function tests it is to be removed from service and not used. Inspect all parts for damage. Replace any damaged parts if necessary and retest.