English

Dometic

Operating instructions

Cassette toilet for recreation vehicles

Dometic **Saneo®B**
Dometic **Saneo®C**
Dometic **Saneo®BLP**
Dometic **Saneo®CLP**
Dometic **Saneo®BS**
Dometic **Saneo®CS**
Dometic **Saneo®BW**
Dometic **Saneo®CW**

Record for future reference:

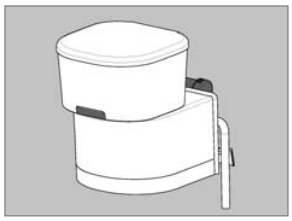
Model number	.....
Product number	.....
Serial number	.....

CE E1 10 R - 047317

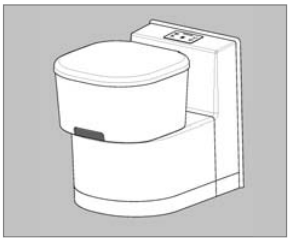
N 1

MBA 01/2015

EN



Saneo B
Saneo C



Saneo BLP
Saneo CLP

Saneo BS
Saneo CS

Saneo BW
Saneo CW

For your safety

CAUTION!

Store these sanitary additives so that they are out of the reach of children.

CAUTION!

Cleaning agents for the toilet must not contain chlorine or alcohol!

Do not shake the cassette tank violently.

Do not clean the inside of the cassette tank with a high pressure cleaner.

Do not attach the cassette tank to a bicycle or any other vehicle for the transport.

Do not use anti-freeze agents. Such agents can damage the sanitation system.

Dometic

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1.0 General

1.1 Introduction

You have made an excellent choice in selecting this **Dometic** cassette toilet. We are sure that you will be satisfied with your new sanitation system in all respects. This toilet meets high quality standards and guarantees the efficient utilisation of resources and energy throughout its entire life cycle, during manufacture, in use and when being disposed of.

1.2 Information on this manual

Before operating the toilet read and understand the contents of this manual.

These instructions provide you with the necessary guidance for the proper use of the toilet. **Observe the safety instructions in particular.** Observing the instructions and handling recommendations is important for dealing with the toilet safely and for protecting you from injury and the toilet from damage. You must understand what you have read before you carry out a task..

Keep this manual in a safe place close to the toilet so it may be referred to at any time.

1.3 Copyright protection

The information, texts and illustrations in these instructions are copyright protected and are subject to industrial property rights. No part of these instructions may be reproduced, copied or utilised in any other way without written authorisation by Dometic GmbH, Siegen.

1.4 Explanation of symbols used in this manual

Warning notices

Warning notices are identified by symbols. A supplementary text gives you an explanation of the degree of danger.

Observe these warning notices rigorously. You will thus protect yourself and other people from injury, and the sanitation system from damage.

CAUTION!

CAUTION **indicates a potentially hazardous situation which may result in minor or moderate injury if the given instructions are not adhered to.**

CAUTION!

CAUTION **(used without the safety alert symbol) indicates a potentially hazardous situation which may result in damage to the appliance if the given instructions are not adhered to.**

Environmental tip

ENVIRONMENTAL TIP **gives you useful guidance for saving energy and disposal of the sanitation system.**

Information

INFORMATION **gives you supplementary and useful guidance when dealing with your toilet.**

1.5 Limitation of liability

All information and guidance in these operating instructions were prepared after taking into consideration the applicable standards and regulations as well as the current state of the art. **Dometic** reserves the right to make changes at any time which are deemed to be in the interest of improving the product and safety.
Dometic will assume no liability for damage in the case of :

- non-observation of the operating instructions
- application not in accordance with the regulations or provisions
- use of non-original spare parts
- modifications and interferences to the appliance

1.6 Warranty

Warranty arrangements are in accordance with EC Directive 44/1999/CE and the normal conditions applicable for the country concerned. For warranty or other maintenance, please contact our customer services department. Any malfunction due to improper use is not covered by the warranty. The warranty does not cover any modifications to the appliance or the use of **non-original Dometic parts**. The warranty does not apply if the installation and operating instructions are not adhered to and no liability shall be entertained.

1.7 Customer services

Dometic offers a customer services network throughout Europe. Find your authorised customer service centre by on the internet **www.dometic.com**.
When contacting Dometic Customer Services, please state the model, product number and serial number together with the MLC code, if applicable. You will find this information on the toilet identification label. We recommend that you note these details in the field provided on the front page of this operation manual.

1.8 Spare parts

Spare parts can be ordered throughout Europe from our customer services department.

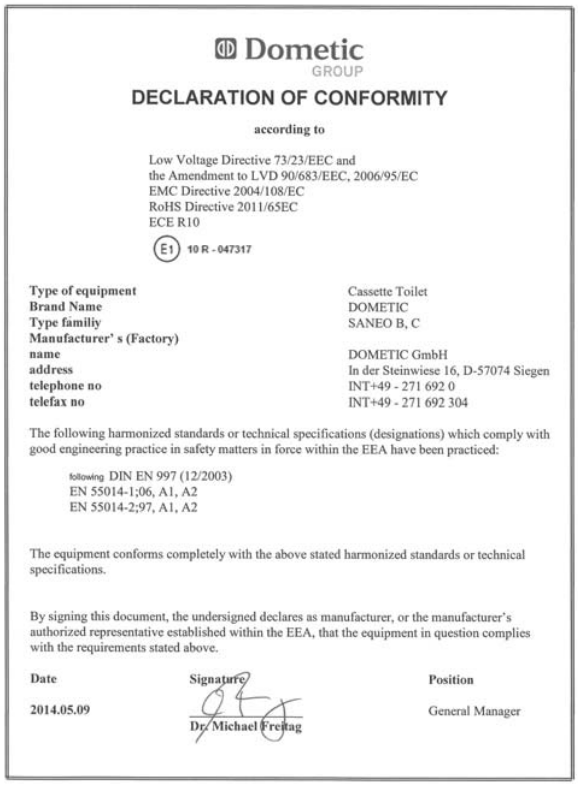
Information about **sanitation accessories** and **products** can be found on the World Wide Web at :

- http://www.my-caravanning.com
- http://www.dometic.com

1.9 Declaration of conformity

Dometic products comply with the specified characteristics according to the respective European Union Directives.

The current Declaration of Conformity can also be requested directly from Dometic GmbH, Siegen.



Dometic
GROUP

DECLARATION OF CONFORMITY

according to

Low Voltage Directive 73/23/EEC and
the Amendment to LVD 90/683/EEC, 2006/95/EC
EMC Directive 2004/108/EC
RoHS Directive 2011/65EC
ECE R10

E1 10 R - 047317

Type of equipment	Cassette Toilet
Brand Name	DOMETIC
Type familiy	SANEO B, C
Manufacturer' s (Factory) name	DOMETIC GmbH
address	In der Steinwiese 16, D-57074 Siegen
telephone no	INT+49 - 271 692 0
telefax no	INT+49 - 271 692 304

The following harmonized standards or technical specifications (designations) which comply with good engineering practice in safety matters in force within the EEA have been practiced:

following DIN EN 997 (12/2003)
EN 55014-1;06, A1, A2
EN 55014-2;97, A1, A2

The equipment conforms completely with the above stated harmonized standards or technical specifications.

By signing this document, the undersigned declares as manufacturer, or the manufacturer's authorized representative established within the EEA, that the equipment in question complies with the requirements stated above.

Date	**Signature**	**Position**
2014.05.09	Dr. Michael Freitag	General Manager

1.10 Dometic sanitary additives

In the "Dometic CARE" series, Dometic offers premium sanitary additives for your toilet. These products help to make using the toilet more comfortable and hygienic and are available at specialist dealers.

Fig. 1

■ Dometic POWER CARE TABS (1)

Highly effective environmentally friendly tab for the waste holding tank. Breaks down waste into liquid and prevents unpleasant odours:
- Powerful and reasonably-priced
- Packed in soluble film
- Just 1 tab per full tank
- For all portable toilets
- space-saving packaging
- Content: 16 tabs.

■ Dometic GREEN CARE TABS (2)

Highly effective environmentally friendly tab for the waste holding tank. Breaks down waste into liquid and prevents unpleasant odours:
- Powerful and environmentally-friendly
- Packed in soluble film
- Just 1 tab per full tank
- For all portable toilets
- space-saving packaging
- Content: 16 tabs.
- platzsparende Verpackung
- Menge pro Dose: 16 Stück.

■ Dometic COMFORT CARE (3)

Special toilet paper for mobile toilets with the comforts of home.

- fast-soluble to prevent blockages
- 2-ply
- extra soft
- facilitates the discharge of the waste holding tank
- Content: 4 pcs .

1.11 Environmental notices

Use of sanitary additives

Please observe the usage notes on the packaging when using sanitary additives.

Disposal

In order to ensure that the recyclable packaging materials are re-used, they should be sent to the customary local collection system. The appliance should be transferred to a suitable waste disposal company that will ensure re-use of the recyclable components and proper disposal of the rest.

2.0 Safety instructions

2.1 Intended use

This toilet is designed for installation in recreation vehicles such as caravans or motorhomes.

The toilet is designed for a maximum person weight of 130 kg.

2.2 User's responsibility

Anyone operating the sanitation system must be familiar with the safe handling and understand the advice in these operating instructions. Children may only operate the sanitation system if they have been made aware of how to operate it safely and the dangers attending incorrect operation.

2.3 Use of sanitary additives

Before using sanitary means when using and cleaning the toilet, observe the usage notes on the packaging.

CAUTION!
Store these sanitary additives so that they are out of the reach of children.

Conventional toilet paper can clog the toilet. Use *Dometic Comfort CARE*, a special, quickly dissolving toilet paper.

2.4 Working upon and checking toilet

Leave maintenance and service work to specialist staff.

Exceptions

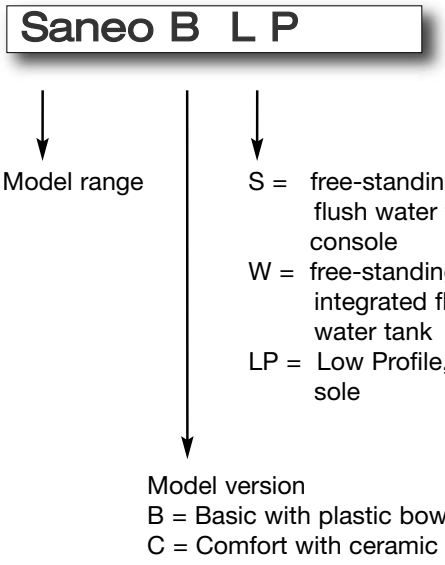
- Regular greasing of the seals mentioned in the item *Maintenance.*
- Removal of the cassette seal.

CAUTION!
Prevent accidental closing of the toilet slide during cleaning and greasing. Risk of injury !

3.0 Description of model

3.1 Model identification

Example:



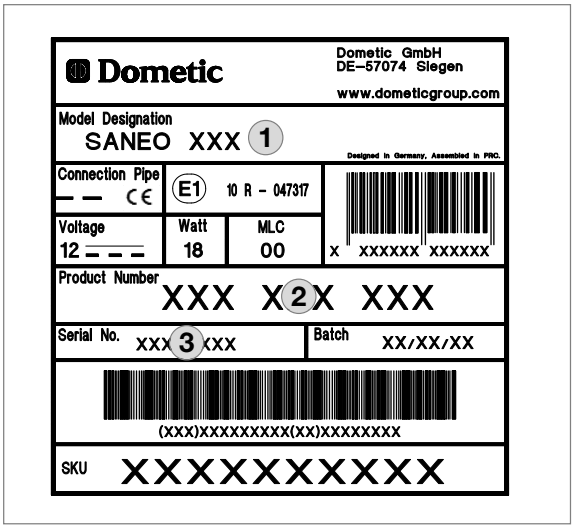
The **Saneo** cassette toilet consists of a toilet which is installed fixed in the vehicle and a removable, mobile cassette as a faeces tank. The cassette can be accessed from the outside through a door. Depending on the model, the toilet receives the flush water from a tank integrated in the model or from a fresh water tank installed in the vehicle.

The following models are available:

- **Saneo B, Saneo C :** free-standing, without water tank, without console
- **Saneo BS, Saneo CS :** free-standing, without water tank, with console
- **Saneo BW, Saneo CW :** free-standing, with water tank in console
- **Saneo BLP, Saneo CLP :** free-standing, without water tank, with low profile console

3.2 Toilet identification label

The identification label contains all important details. You can read off from this the model identification, the product number and the serial number. You will need these details whenever you contact the customer services centre or when ordering spare parts. You will find the identification label within the cassette housing after removing the cassette.



Example *Fig. 2*

1 Model number
2 Product number
3 Serial number

3.3 Technical data

Supply voltage : 12 V DC
Current consumption : max. 2 A with internal water pump, max. 10 A with external pump.
Dimensions : s. details in installation manual
Operating temperature : 0°C up to + 50°C
Capacity: :
Cassette tank 16l
Fresh water tank (optional) 7l

Required pump output at the inlet of the toilet: min. 5.5 l/min, max. 12 l/min (recommended 7-8 l/min).

3.4 Description of components

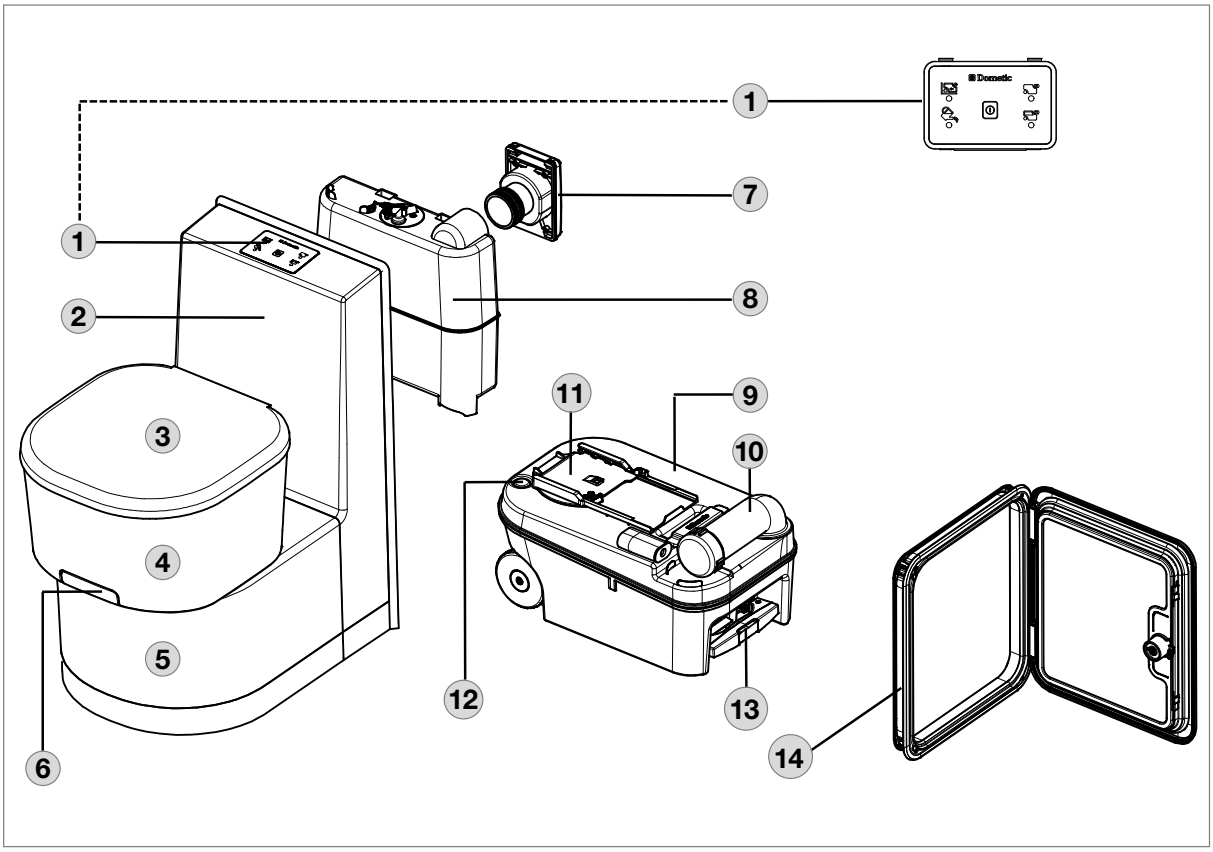


Fig. 3

1. Level indicator / flush (control panel)
2. Wall socket console
3. Seat (cover / toilet seat):
   - Saneo **C**omfort model with automatic closure system ("Autoclose")
   - Saneo **B**asic model without automatic closure system (optional "Autoclose" retrofit kit)
4. Toilet bowl made of plastic or ceramic
5. Housing for cassette tank
6. Emptying slider for the toilet bowl
7. Tank filling flap (option: lockable tank filling flap)
8. Integrated fresh water tank
9. Cassette tank
10. Pour out spout
11. Slider on the cassette
12. Vent button for emptying
13. Pull-out handle (cassette tank movable on wheels)
14. Service door

4.0 Using the toilet

4.1 Cleaning

Before using the toilet for the first time, we recommend cleaning the toilet on the inside and outside.

Use a soft cloth and lukewarm water with a mild detergent. Then rinse the surfaces with clear water. To avoid material alterations, do not use soap or hard, abrasive or soda-based cleaning agents.

CAUTION!

Cleaning agents for the toilet must not contain chlorine or alcohol!

Use a mild and colourless cleaning agent for the regular cleaning of the toilet bowl.

4.2 Preparing cassette tank

Before you use the toilette for the first time:

- Open the service door.
- Unlock the cassette tank by pushing the secure lock **(1)** upwards.

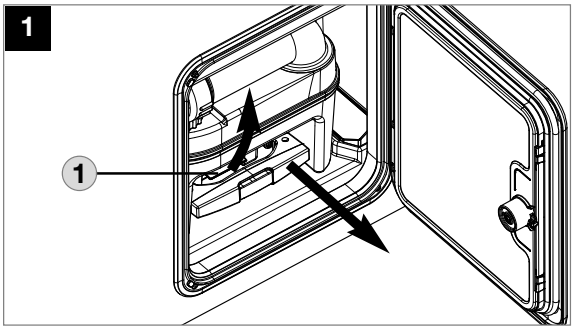


Fig. 4

- Pull the cassette out and remove it completely.

The slider handle on the toilet case is locked when the cassette is removed. **Do not pull handle!** The cassette cannot be inserted when the slider is open.

- Place the cassette tank in an upright position and turn the pour out spout upwards by approx. 90°.

CAUTION!

Avoid turning the spout by more than 90°, as it may otherwise come loose.

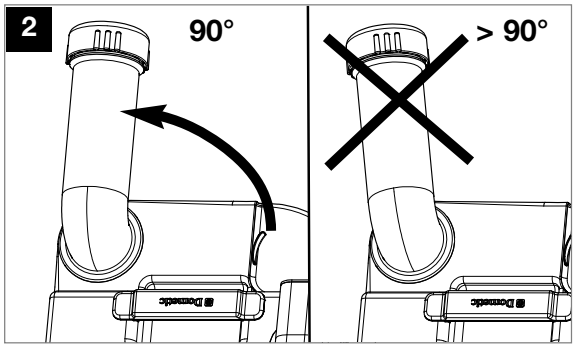


Fig. 5

- Remove the cap from the spout.
- Attach the sealing cap to the indicated place on the cassette (Fig. 7).

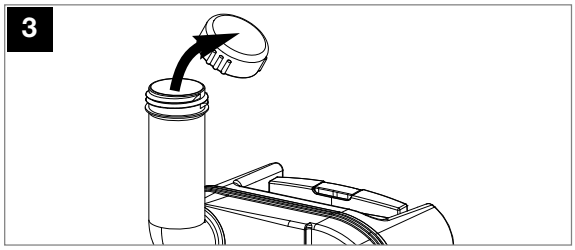


Fig. 6

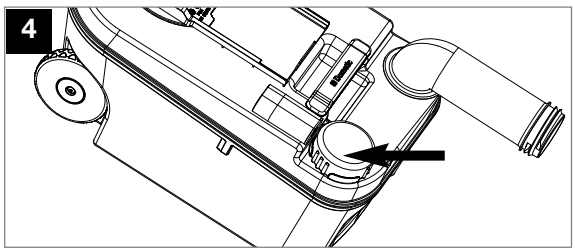


Fig. 7

- Drop a *Dometic Power CARE Tab* via the spout into the cassette tank in accordance with the instructions for use (see also information in section 1.10).

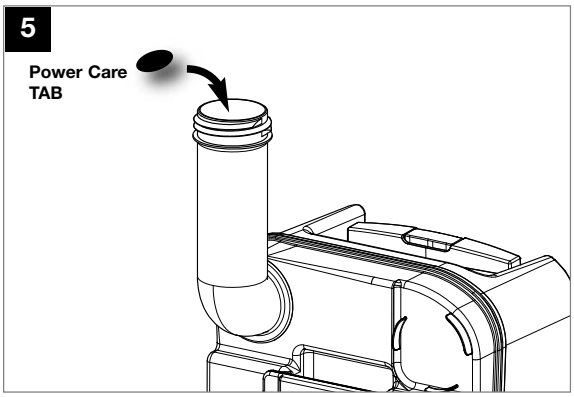


Fig. 8

- Put the cassette back in and push it in until it stops.

  Ensure that the tank can be smoothly inserted. Do not use force!

- The tank's lock shuts automatically when inserted. But check that the cassette tank is firmly attached.
- Close and lock the service door.

4.3 Filling fresh water tank

Fill the fresh water tank via the filling piece on the outside of the vehicle. The quantity depends on the tank used (integrated tank with models Saneo BW and Saneo CW = 7ltr.).

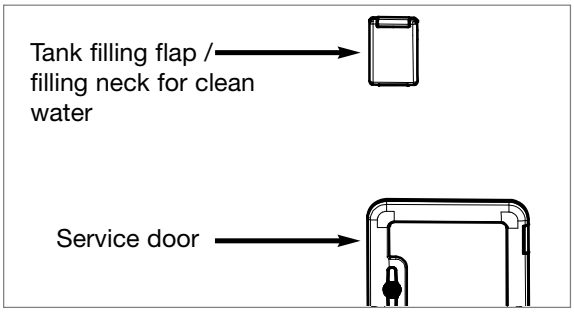


Fig. 9

4.4 Control panel

4.4.1 Tact-Switch control panel

(Standard for Saneo **B**asic)

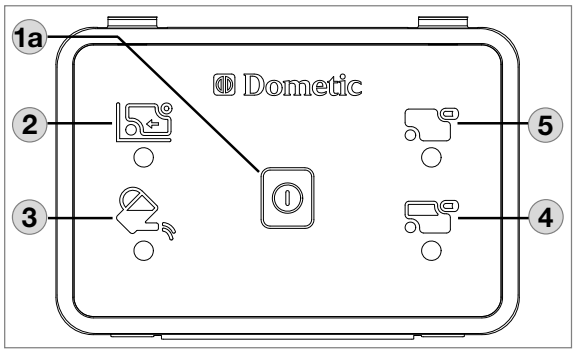


Fig. 10

Press the button **(1a)** with your finger to operate the flushing.

4.4.2 Touch-Switch control panel

(Standard with Saneo **C**omfort)

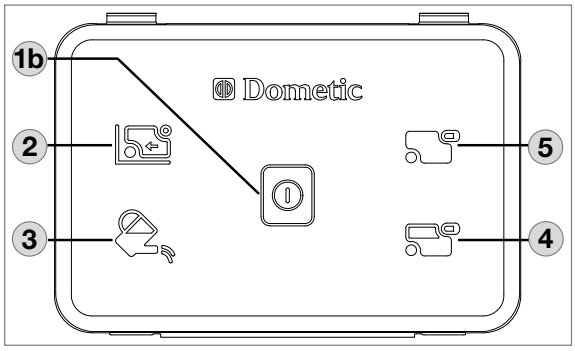


Fig. 11

Touch the control panel in the area of the button **(1b)** with your finger to operate the flushing*. Do not put any objects on the surface to prevent starting unwanted flushing.

* A touch switch control panel can have preset flushing programs (interval flushing).

Description of control panel
(both versions)

- **1a** "Flush" button
- **1b** "Flush" touch-sensitive switch
- **2** "Cassette tank removed" display
- **3** "Fill fresh water tank" display*
- **4** "Cassette tank 3/4 full" display
- **5** "Cassette tank full" display

* not connected as a rule when using the on-board tank.

4.5 Using the toilet

The toilet seat **(1)** is secured against falling down in the opened position. For Saneo **C**omfort models with automatic closure system (Autoclose), the seat lowers slowly if you bump against it.

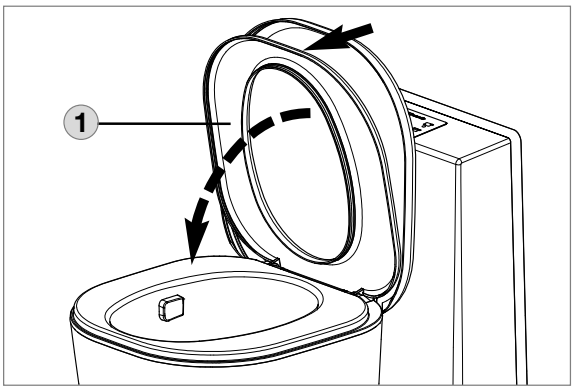


Fig. 12

- Let some water run into the bowl before use. Operate the flush button **(2)** for this. Any flushing process is limited to 20 seconds irrespective of how long the button is kept pressed. The switching of the relay can be heard.

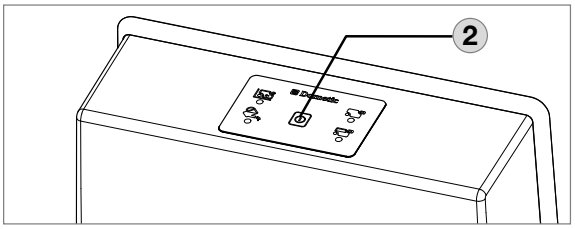


Fig. 13

- Pull the silder handle **(3)** forwards.
- Leave the slider open during use.

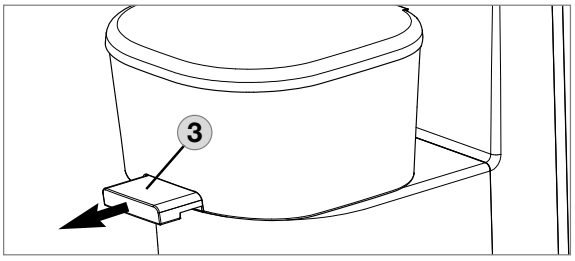


Fig. 14

- Operate the flush button **(2)** again after use to flush the bowl.
- Close the slider handle **(3)** .

Slight resistance when closing the slider is noticeable from a distance of approx. 10 mm from the case.
The slider is closed if the slider handle **(3)** does not protrude beyond the toilet case **[2]**. Otherwise the cassette tank cannot be removed.

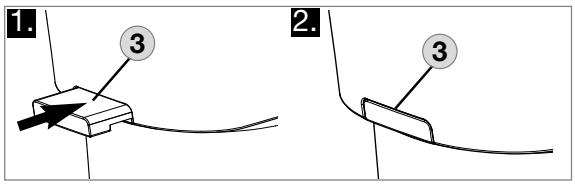


Fig. 15

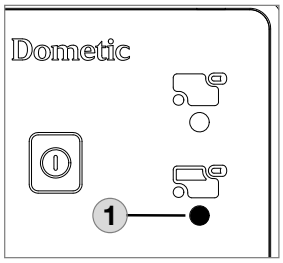


Fig. 16

The cassette tank has a capacity of 16 l. When LED **(1)** lights up, the tank is approx. 80 % full. This means that it can be used only a couple of times.

When the cassette is 3/4 full, the toilet may only be used with the blade open.

On a slope (e.g. extended inclination of the vehicle), the cassette must not be more than 3/4 full. An overflow through the ventilation is possible.

4.6 Emptying the cassette tank

Empty the cassette tank when the level indicator LED lights up.

- Remove the cassette tank as described in section *Preparing cassette tank* .
- The cassette tank is provided with wheels and a pull-out handle. To unlock the handle, push in the button **(1,** Fig. 17**)** in middle of the handle. Pull out the handle until it stops.
- Take the tank to the nearest indicated disposal point.

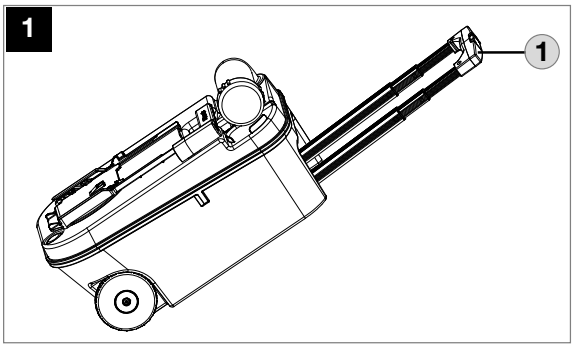


Fig. 17

CAUTION!

- **Do not shake the cassette tank violently.**
- **Do not attach the cassette tank to a bicycle or any other vehicle for the transport.**
- **Do not put any heavy objects on the cassette tank during the transport.**

This will damage the case and the wheels.

- To bring the handle back into its original position, press the handle's unlock key and push the handle back into the cassette.
- Place the cassette tank in an upright position and turn the emptying spout upward
- Remove the cap from the spout.
- Attach the sealing cap to the indicated place on the cassette (Fig. 18).

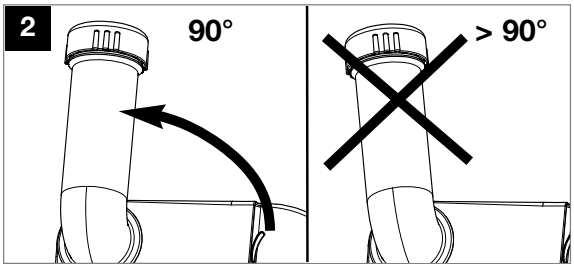


Fig. 18

CAUTION!

Avoid turning the spout by more than 90°, as it may otherwise come loose.

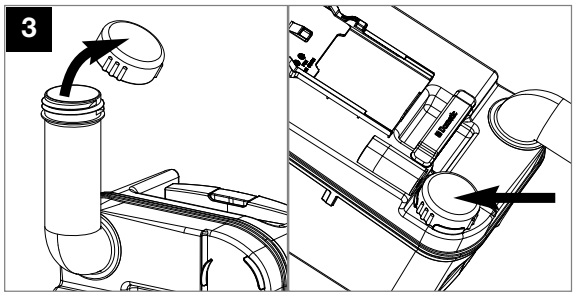


Fig. 19

- Hold the cassette tank at the handle **(2)** with one hand while you hold the tank on the case **(3)** with the other hand so that you can press the vent button **(1)** during the emptying.

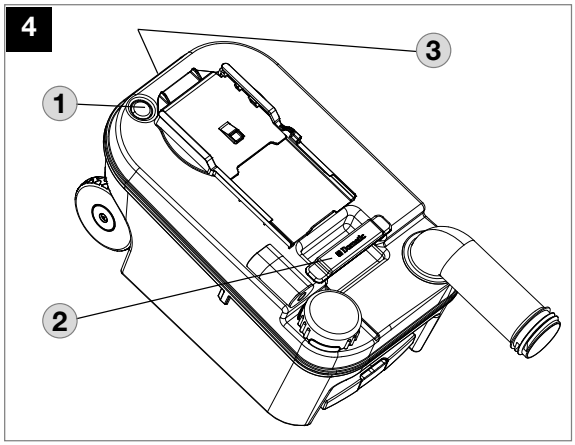


Fig. 20

- **The vent button should only be pressed once the emptying spout is pointing downwards.** The tank empties evenly and without squirting.
- After emptying, flush the cassette tank thoroughly with water. Then make the tank operational again as described in section *Preparing cassette tank*, before inserting it in the toilet.
- Clean coarse dirt from the wheels of the cassette tank to prevent scratches in the cassette case.

CAUTION!

Do not clean the inside of the cassette tank with a high pressure cleaner.
This can damage the float for the filling level indicator.

4.7 Positioning the toilet seat

The top part of the toilet can be rotated by 180° (continuous) from the home position, 90° in each case in both directions. A limit stop prevents the top part impacting on the console.

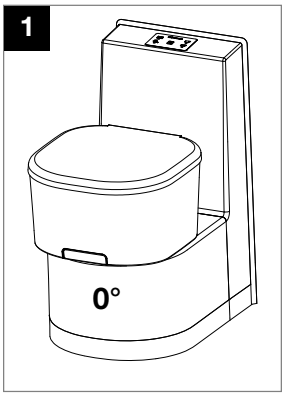


Fig. 21

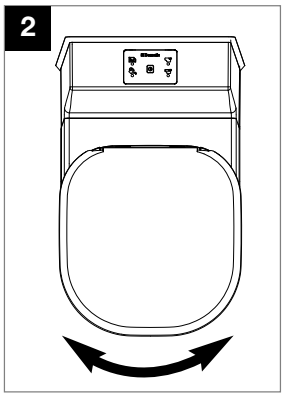


Fig. 22

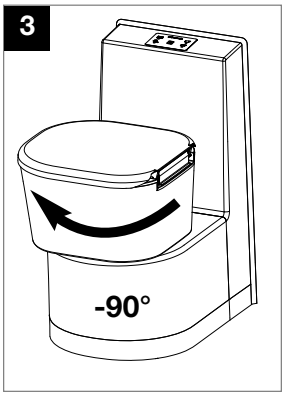


Fig. 23

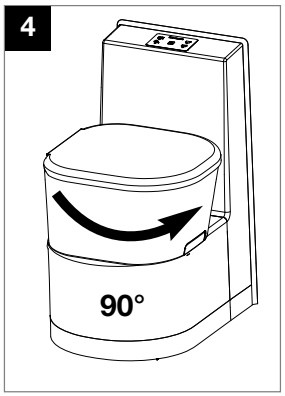


Fig. 24

4.8 Winter operation

You can continue to use the cassette also in winter, as long as the toilet and the cassette are situated in a frost-protected location.

If this is not the case, empty the fresh water tank, the cassette tank and the water pipes of fresh water supply. This prevents damage due to frost (see *Decommissioning*).

CAUTION!

Do not use anti-freeze agents. Such agents can damage the sanitation system.

4.9 Decommissioning

If you wish to decommission the toilet for long periods of time, empty the fresh water tank and the water supply system fully.

- Clean the toilet thoroughly.
- Press the flush button until there is no remaining water left in the pipes.
- Switch off the power supply for the toilet.
- Then empty the cassette tank and rinse it thoroughly. Clean the cassette. To allow the tank to dry, do not place the cap back on the emptying spout of the waste tank.
- Clean and grease all seals and moving parts of the toilet and of the cassette tank (see *Maintenance*) and repeat this action before putting back into operation.

4.10 Maintenance

- Clean the toilet bowl regularly.

  Information about **sanitation accessories** and **products** can be found on the World Wide Web at :
  http://www.my-caravanning.com

Clean and grease all seals on the toilet and cassette tank regularly. In the case of frequent use, perform this action monthly or after emptying the cassette 3 - 5 times. Use silicone-based grease or spray.

We recommend :
- grease : OKS® 1110
- spray : OKS® 1111

The cassette slider must always be greased for comfortable use and better handling.

CAUTION!

Accidental closing of the slider during cleaning and greasing can result in injuries!

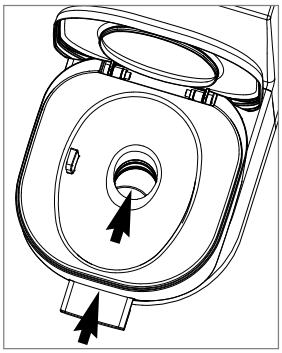


Fig. 25

4.10.1 Cleaning flushing nozzle

- Pull back the cover of the flushing nozzle **(1)** in the direction shown.
- Remove dirt or deposits with a cloth or a soft brush.
- Replace the cover of the flushing nozzle **(1)** in the way shown.

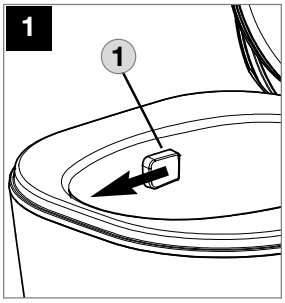


Fig. 26

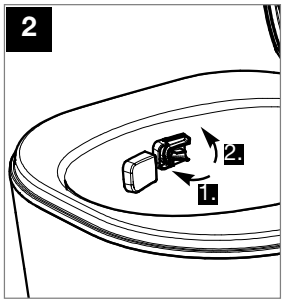


Fig. 27

4.10.2 Greasing slide rods

Fig. 28

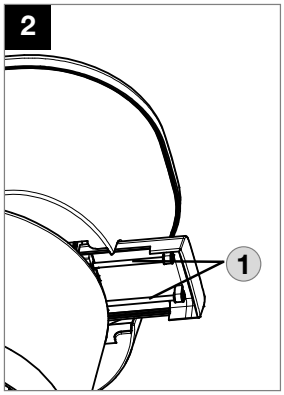


Fig. 29

Spray the rods of the slider **(1)** with silicone spray.

4.10.3 Greasing slider seal

There are two seals in the lower area of the toilet bowl which support the slider during closing. Grease this area carefully to prevent stiff movement.

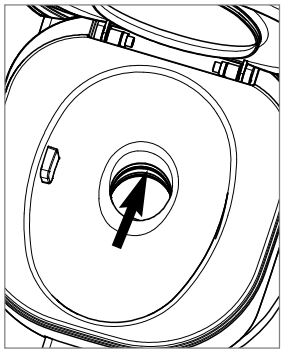


Fig. 30

4.10.4 Greasing cassette seal

Remove the cassette tank and place it on a solid surface. Pull back the cover **(1)** so that the seal is accessible.

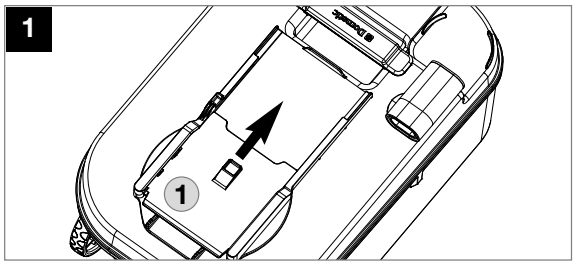


Fig. 31

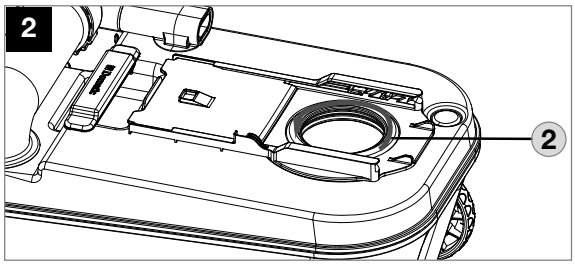


Fig. 32

Grease the cassette seal **(2)** evenly in the upper area with silicone-based grease. The cover remains movable as a result. Close the cover.

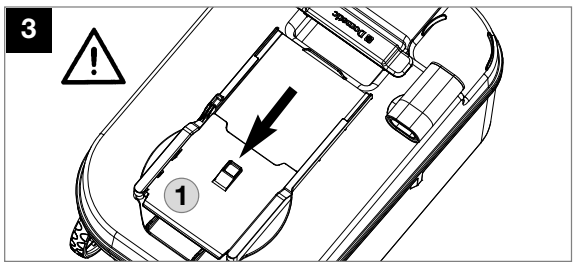


Fig. 33

4.10.5 Replacing cassette seal

- Remove the seal **(1)** as shown in the following illustrations.
- Remove the support ring **(2)**.

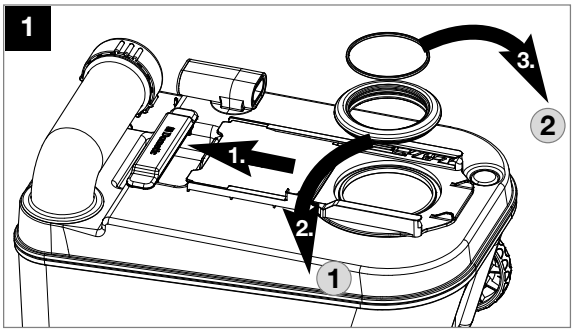


Fig. 34

- Insert new seal.

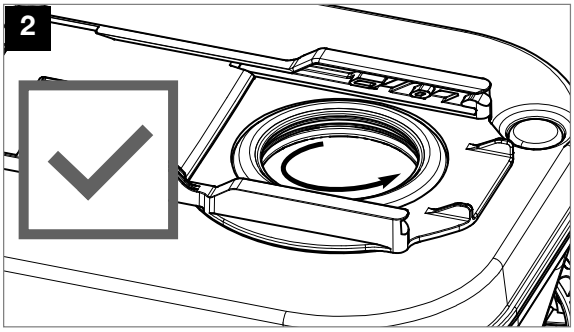


Fig. 35

CAUTION!

The seal must contact evenly in the opening otherwise leaks and binding of the blade are possible.

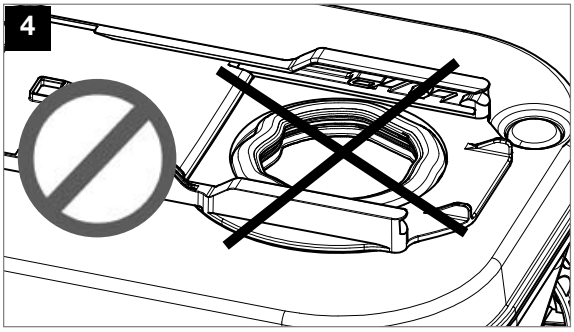


Fig. 36

- Then insert the support ring in the provided groove of the cassette seal.

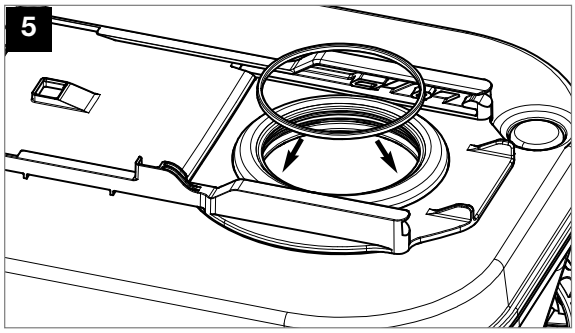


Fig. 37

- Close the cover.

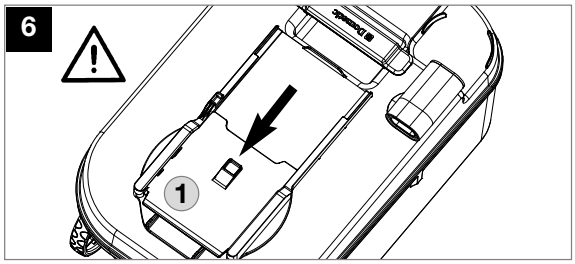


Fig. 38

4.10.6 Greasing bayonet seal

- First undo the bayonet lock **(1)** of the cassette.
- Grease the bayonet seal **(2)** (bottom side of the bayonet lock) evenly with silicone grease.

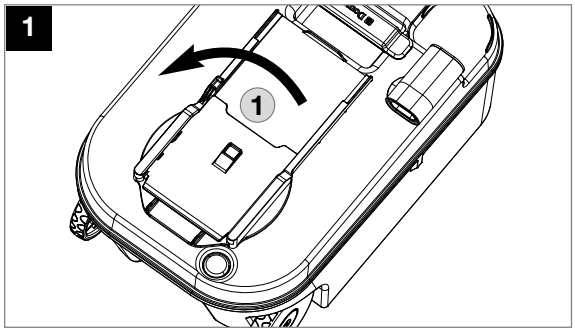


Fig. 39

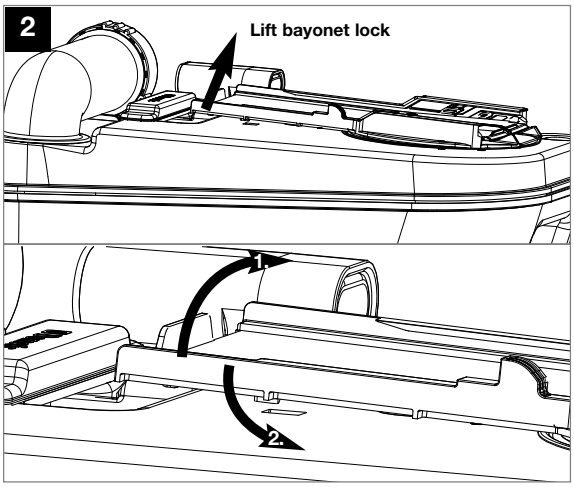


Fig. 40

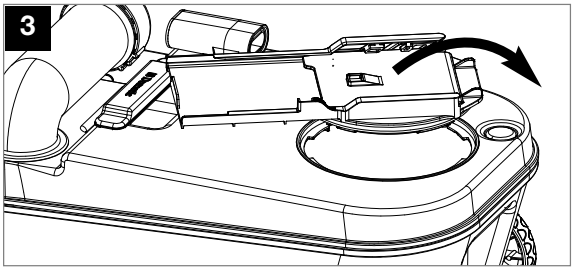


Fig. 41

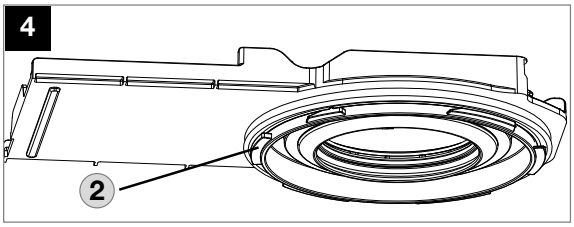


Fig. 42

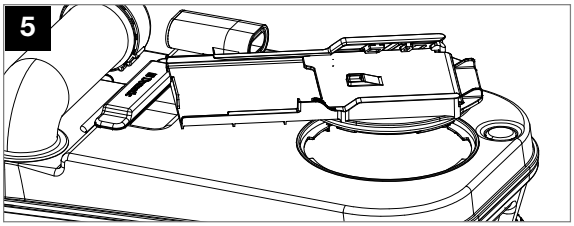


Fig. 43

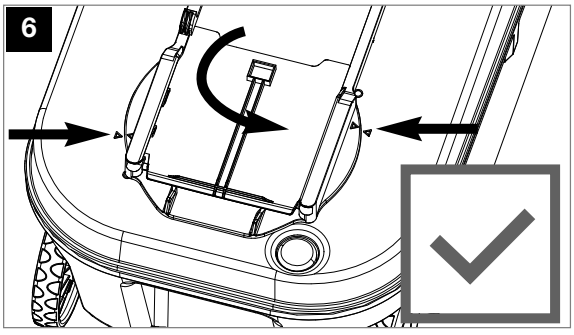


Fig. 44

4.10.7 Replacing bayonet seal

- Pay attention to even seating of the new sealing ring **(2)**.

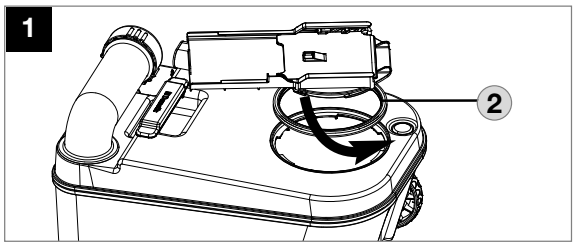


Fig. 45

4.10.8 Greasing O-ring of the cassette ventilation

- Detach adapter **(1)** from the cassette.
- Only grease the attached O-ring **(2)** with silicone grease.

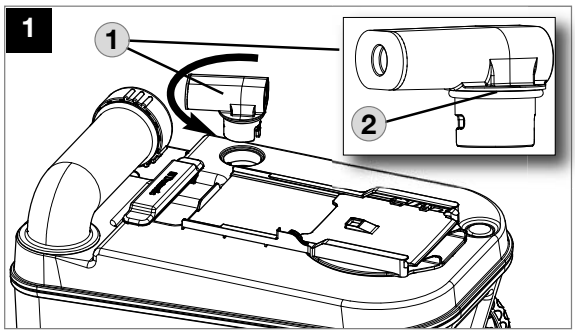


Fig. 46

4.11 Exchanging the fuse on the control panel

CAUTION!

Cut off power supply before starting to work!

The fuse (**automotive fuse : 10 A**) is located on the bottom side of the control panel.

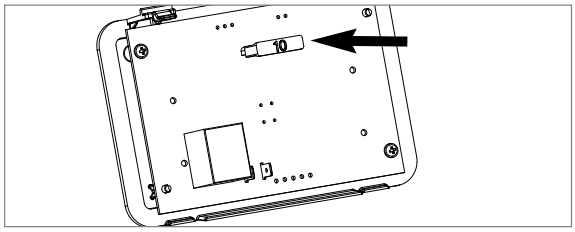


Fig. 47

Removing operating unit (wall)

Lift the control panel with a suitable tool and pull it out of the wall.

CAUTION!

Carefully pull the operating unit out of the wall opening. There is a risk of injury from springs jumping back!

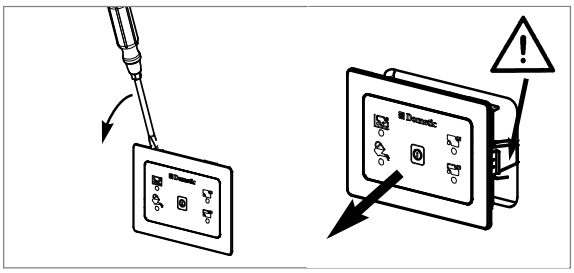


Fig. 48

4.12 Replacing wheels on the cassette tank

The wheels on the cassette tank can be replaced individually as required.

- Undo bolt and remove wheel together with the washer.
- Attach and tighten new wheel.
- Check wheel can move freely.

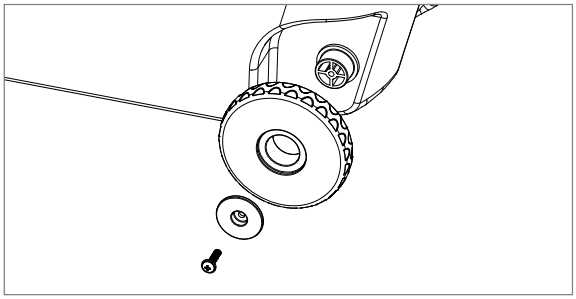


Fig. 49

4.13 Retrofitting / replacing automatic closure system (Autoclose)

The automatic closure system is integrated for Saneo **C**omfort models. This function can be retrofitted for Saneo **B**asic models.

No tools are needed for the replacement or retrofitting.

- Open the cover and toilet seat.
- Take the new parts of the automatic closure system and insert the part with the marking "CW" into the left hinge and the part with the marking "CCW" into the right hinge.
- Close the cover by tapping. Toilet seat and cover lower slowly.

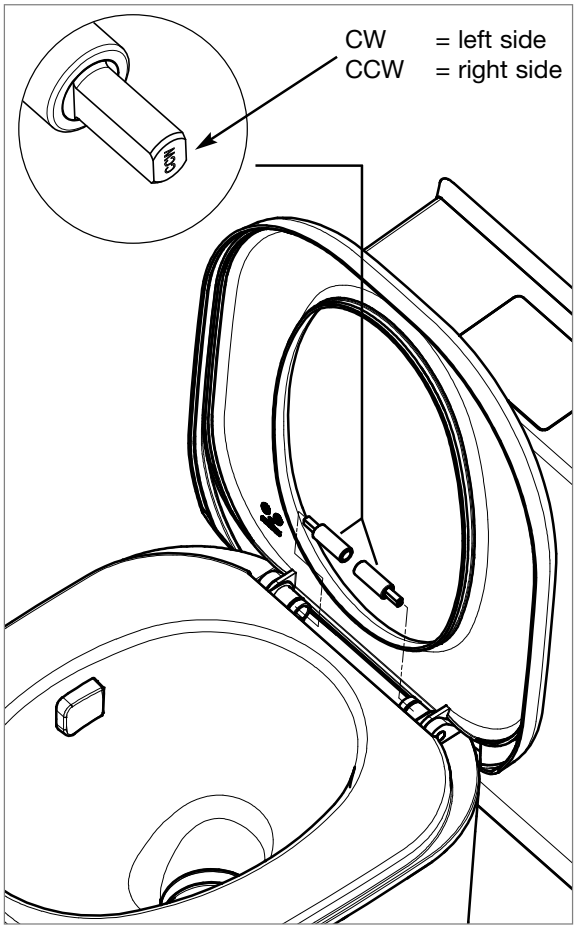
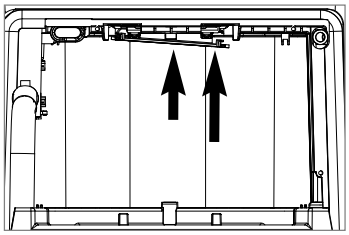


Fig. 50

4.14 Troubleshooting

Fault	Possible cause	Action you can take
Flushing no longer functions	Fuse defective	Replace fuse (see chpt. 4.11) Check electrical terminals and connections in the case of repeated failure
Cassette leaking	Seal worn	Replace cassette seal (see chpt. 4.10.5)
No filling level display	Float in the cassette has got stuck or is jammed by toilet paper	Clean float in the cassette **(do not use any high-pressure cleaner)**
Cassette tank cannot be completely inserted.	Bottom slider seal has detached.	Press slider seal into correct position.