

↗ DOMETIC

SANITATION TOILETS



300 Series (300, 301), 310 Series (310, 311), 320 Series (320, 321)

EN

Gravity-Flush Toilet

Installation and Operation Manual 2

FR

Toilette à chasse par gravité

Manuel d'installation et d'utilisation . . . 19

ES

Inodoro con descarga por gravedad

Manual de instalación y funcionamiento . . 37



⚠ WARNING

Cancer and Reproductive Harm
www.P65Warnings.ca.gov

Attention Consumers: This product is intended to replace an existing toilet in your RV. If you are creating a new installation or planning a more complicated project, please consult a qualified service professional.

Service Center & Dealer Locations

Visit: www.dometic.com

Read these instructions carefully.
These instructions **MUST** stay with this product.

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1 Explanation of Symbols and Safety Instructions

This manual has safety information and instructions to help you eliminate or reduce the risk of accidents and injuries.

1.1 Recognize Safety Information

This is the safety alert symbol. It is used to alert you to potential physical injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

1.2 Understand Signal Words

A signal word will identify safety messages and property damage messages, and also will indicate the degree or level of hazard seriousness.



DANGER!
Indicates a hazardous situation that, if **not** avoided, will result in death or serious injury.



WARNING
Indicates a hazardous situation that, if **not** avoided, could result in death or serious injury.

**CAUTION**

Indicates a hazardous situation that, if **not** avoided, could result in minor or moderate injury.

NOTICE: Used to address practices **not** related to physical injury.



Indicates additional information that is **not** related to physical injury.

1.3 Supplemental Directives

To reduce the risk of accidents and injuries, please observe the following directives before proceeding to install, operate, or service this appliance:

- Read and follow all safety information and instructions.
- Read and understand these instructions before installing, operating, or servicing this product.
- The installation must comply with all applicable local or national codes, including the latest edition of the following standards:

U.S.A.

- ANSI/NFPA70, National Electrical Code (NEC)
- ANSI/NFPA 1192, Recreational Vehicles Code
- ANSI Z21.57, Recreational Vehicles Code

Canada

- CSA C22.1, Parts I & II, Canadian Electrical Code
- CSA Z240 RV Series, Recreational Vehicles

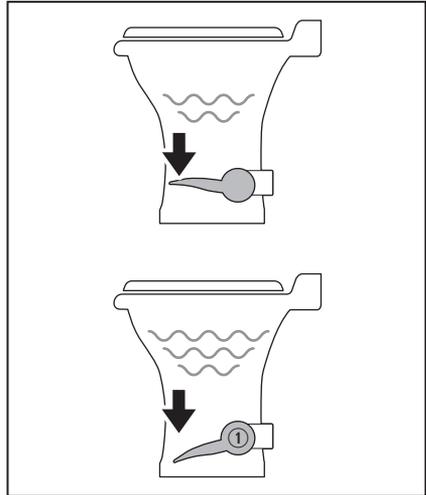
1.4 Personal and Product Safety

NOTICE: Failure to adhere to the instructions in the following statements could result in personal, product, and/or property damage.

- Modifying this product may result in property damage.
- Always turn off the water supply before removing, installing, or repairing a plumbing fixture.

4.1 Adding Water to the Bowl

Adding water to an empty bowl helps prevent holding tank odors from entering the living space. Adding water is recommended prior to flushing solids and toilet paper.



11 Partially Depressing the Flush Pedal

① Flush Pedal

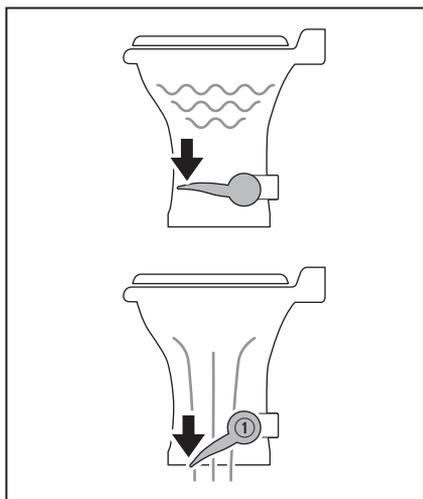
1. To add water to the toilet, depress the flush pedal part way. Water flows into the bowl while the flush ball remains closed.
2. If the flush ball moves, let up on the pedal slightly.

4.2 Flushing the Toilet

NOTICE: Flush only water, bodily wastes, and rapid-dissolving toilet tissue. Do not flush foreign objects. Do not flush wet wipes, sanitary napkins, diapers, paper cups, cotton swabs, food, hair, or liquids such as oils or solvents. Failure to follow these instructions could cause clogging or damage to the toilet or the toilet system.

4 Operation

This section provides instructions on the proper use of these gravity-flush toilets.



12 Fully Depressing the Flush Pedal

① Flush Pedal

1. To flush, depress the pedal until it contacts the floor.
2. Release the pedal after a complete flush.
 - When flushing liquids, depress the pedal for approximately 1–2 seconds.
 - When flushing solids, depress the pedal until the contents of the bowl rinses from the bowl. Flushing longer than necessary will cause the holding tank to fill too quickly.

A small amount of water will collect in the bowl after a flush to create an airtight seal.

i Residual water trickle in the ceramic bowls: Due to the integrated rim of the models 310, 311, 320, and 321 toilets, water may continue to trickle into the toilet bowl for up to 20 minutes after flushing. If the water trickle continues after 30 minutes, replace the water valve. Refer to “Replacing the Water Valve” on page 14.

So that holding tank odors do not enter the living space, make sure 1 in. (24 mm) of water remains in the toilet bowl. Depending on the plumbing system and user operation, adding water may be required to achieve this water depth. Refer to “Adding Water to the Bowl” on page 9.

5 Maintenance

Properly cleaning, winterizing, and maintaining your toilet will increase its lifespan.

NOTICE: If this toilet ever requires service, read the following statements before servicing the product. Failure to follow these guidelines can cause product damage and **can void your warranty coverage:**

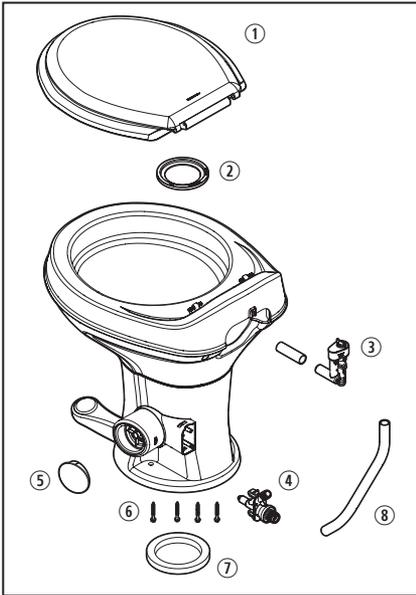
- Do **not** separate the ceramic bowl from the plastic base. Unlike other Dometic foot-pedal toilets, the bowl and base of the 300, 310, and 320 series toilets should **not** be separated for any reason.
- Do **not** remove the foot pedal from the base. This toilet has a factory-sealed bowl-to-base assembly.
- Do **not** disassemble the components.
- Refer to this manual and replacement kit instructions for maintenance and service information.

The toilet does **not** need to be removed from the vehicle (or unfastened from the floor) for basic repairs, like the flush ball seal replacement and water valve replacement.

If you need to call Dometic for assistance, have the exact model number available. Refer to “Model Identification” on page 4.

5.1 Serviceable Parts

This section shows the replacement parts for the toilet models. Actual available parts may vary. Refer to the complete parts list (available online at www.dometic.com) for additional information. To order parts, contact your local Dometic service partner or dealer.



13 300 Series Serviceable Parts

- | | |
|-------------------|---------------------|
| ① Toilet Seat | ⑤ Pedal Cover |
| ② Flush Ball Seal | ⑥ T-Bolts |
| ③ Vacuum Breaker | ⑦ Floor Flange Seal |
| ④ Water Valve | ⑧ Supply Hose |

5.2 Maintenance Kits and Materials

These kits are available for purchase:

- 300/310/320 Series Toilet Water Valve Replacement Kit
- Flush Ball Seal Replacement Kit
- Vacuum Breaker Kit

Recommended for cleaning:

- SeaLand® Toilet Bowl Cleaner
- Soft bristle brush
- Rubbing alcohol (300/301 only)

Recommended for winterization/storage:

- Nontoxic antifreeze (propylene glycol)

Optional for troubleshooting:

- SeaLand Holding Tank Deodorant
- Silicone spray

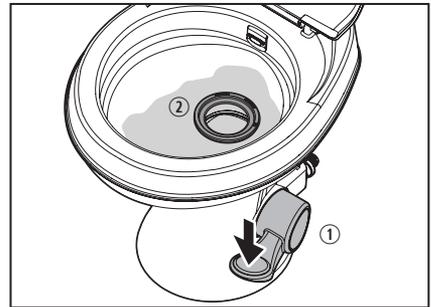
5.3 Performing Routine Toilet Cleaning

For routine cleaning, use SeaLand toilet bowl cleaner. If this cleaner cannot be found in your area, contact Dometic for your nearest dealer. If the cleaner is not available, use a non-abrasive bathroom and toilet bowl cleaner. Follow label instructions.

For stubborn stains on model 300 and 301 toilet bowls, carefully use rubbing alcohol to wipe and remove the stain.

5.4 Cleaning the Flush Ball and Seal

After a period of time, mineral deposits from hard water may build up on the flush ball or seal, resulting in a slow water leak. To prevent this, periodically clean the flush ball and seal.



14 Cleaning Debris from the Flush Ball Seal

- ① Flush Ball Seal ② Flush Pedal

1. Remove minor debris from the flush ball and seal by slowly depressing and releasing the flush pedal several times. This will loosen and rinse debris from the surfaces. Repeat several times for stubborn buildup.
2. If step 1 does not fully clean the ball and seal, clean with a soft bristle brush and SeaLand toilet bowl cleaner.
 - Fully clean the top of the flush ball and under the seal where it contacts the flush ball.

- After cleaning the underside of the seal, apply light, downward pressure to the top of the seal while brushing around the full perimeter of the seal.

i If the ball pivot arm becomes dislodged while cleaning inside the base beneath the flush ball and seal, re-engage it into the pivot point. Refer to Figure 16 for the location of the pivot point.

i If this procedure does not correct a leaking seal, it may require replacement. Detailed replacement instructions are included with the replacement flush ball seal kits.

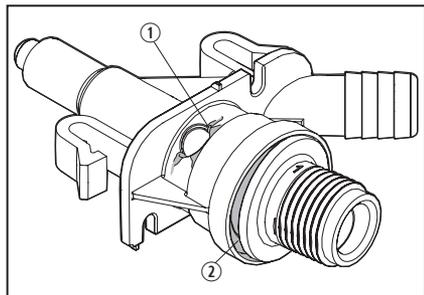
5.5 Winterizing and Storing the Toilet

⚠ WARNING: POISON HAZARD.
Do **not** use automotive-type antifreeze (ethylene glycol) in freshwater systems. Failure to obey this warning could result in death or serious injury:

⚠ CAUTION: BODILY HARM HAZARD.
This toilet is **not** intended for use when exposed to temperatures below freezing. Failure to obey this caution could result in minor or moderate injury.

NOTICE: The toilet warranty expressly excludes coverage for any damages to the toilet or the vehicle that may occur due to improper winterization of the toilet. Freeze damage that results in leaks to the water valve is an indicator of improper winterization.

5.5.1 Preventing a Frozen Water Valve



15 Identifying a Damaged Water Valve

① Freeze Damage ② Water Valve Damage

These toilet water valves exceed the applicable standards for maximum water pressure as defined by the North American plumbing code agencies. However, if trapped water freezes in the piping that supplies water to the toilet, it expands and creates extremely high pressure that can damage the valve.

If the freeze damage indicator window (1) has white stress marks, it indicates freeze-damage. Water valve damage is due to severe exposure to below-freezing temperatures.

To avoid damage, winterize the toilet as described in this manual. If freeze damage occurs as a result of improper winterization, replace the water valve with a 300/310/320 series toilet water valve kit.

If the water valve is returned for a warranty claim, Dometic reserves the right to deny the claim if the problem is caused by freeze damage.

i Use nontoxic antifreeze (propylene glycol) designated for potable water systems (See the vehicle owner's manual).

When a toilet may be exposed to temperatures below freezing, the toilet must be winterized using the "Non-toxic Antifreeze Winterization Method" on page 12 or the "Drain Water from the Toilet Method" on page 13. When a toilet is stored for long periods of time, or the water becomes stagnant, flush the system using the "Drain Water from the Toilet Method" on page 13.

5.5.2 Non-toxic Antifreeze Winterization Method

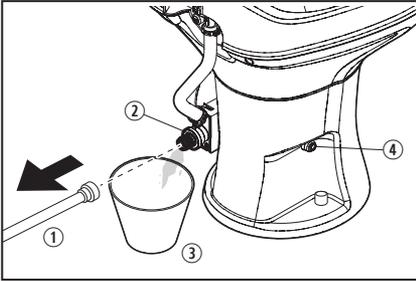
i This is the recommended method.

1. Pour non-toxic antifreeze into the potable water tank according to the instructions from the antifreeze manufacturer.
2. Flush the toilet (several times) until the antifreeze has flowed completely through the toilet.

i For toilets with a hand sprayer, the hand sprayer must be turned on for antifreeze to cycle through the sprayer.

5.5.3 Drain Water from the Toilet Method

1. Turn off the water supply to the toilet.



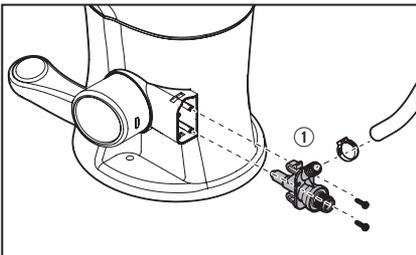
16 Removing the Water Supply

- | | |
|---------------------|--------------------------------------|
| ① Water Supply Line | ③ Small Bucket |
| ② Water Inlet Valve | ④ Pivot Point for the Ball Pivot Arm |
2. Remove the water supply line from the water valve.
 3. Place a small bucket under the water valve inlet to catch draining water.
 4. Depress the flush pedal and allow water to completely drain from the water valve and vacuum breaker.
 5. Leave the water line disconnected until the threat of freezing temperatures is past.

NOTICE: Do **not** leave the RV unoccupied for extended periods of time with a municipal water supply connected, or with the onboard water pump turned on, when there is a possibility of freezing temperatures.

5.6 Replacing the Water Valve

Refer to the detailed replacement instructions in the water valve replacement kit before removing or installing a water valve assembly.



17 Removing the Water Valve Assembly

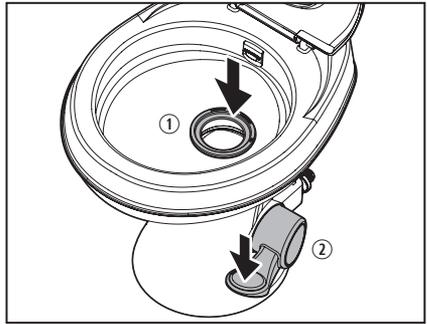
- ① Water Inlet Valve Assembly

- i** In cold climates, be sure to follow the winterizing procedure in this manual to help avoid water valve failure.

5.7 Reconditioning the Flush Ball Seal

Each toilet is factory-tested to assure a watertight seal in the toilet bowl. This quality-assurance testing process requires a device to hold the flush ball open, which may temporarily distort the flush ball seal from its original shape. As a result, it may cause the flush ball seal to leak water into the holding tank during normal use.

If you discover a water leak into the holding tank, recondition the flush ball seal into its original shape.



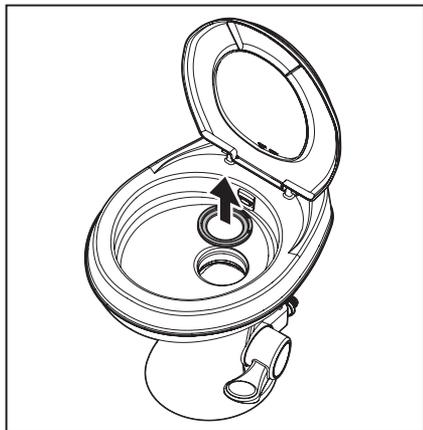
18 Reconditioning the Flush Ball Seal

- | | |
|-------------------|---------------|
| ① Flush Ball Seal | ② Flush Pedal |
|-------------------|---------------|
1. Depress the pedal to hold the flush ball open, then lightly press down around the edge of the seal with a finger to conform the seal to the flush ball.
 2. Release the pedal.
 3. Keeping the flush ball closed, pour 1 qt (0.9 L) of hot tap water into the toilet bowl.
 4. Let the water cool completely.

If the toilet does not hold water in the bowl, refer to "Troubleshooting" on page 15 before you replace the flush ball seal.

5.8 Replacing the Flush Ball Seal

Refer to the detailed replacement instructions in the flush ball seal replacement kit before removing or installing the seal.



19 Removing the Flush Ball Seal

6 Troubleshooting

Problem	Possible Cause	Suggested Remedy
Water will not stay in the bowl.	The flush ball seal is not properly positioned.	Refer to "Reconditioning the Flush Ball Seal" on page 13.
	The flush ball seal's shape is temporarily distorted.	Refer to "Reconditioning the Flush Ball Seal" on page 13.
	The flush ball or flush ball seal is dirty.	Clean and seal the flush ball. Refer to "Cleaning the Flush Ball and Seal" on page 11.
	The flush ball seal is worn or defective.	Replace the flush ball seal. To replace the flush ball seal, refer to the detailed instructions included with the flush ball seal replacement kit.
Water flow into the toilet will not stop.	The water valve is worn or defective.	Replace the water valve. Refer to "Replacing the Water Valve" on page 13.
Water does not enter the toilet bowl properly.	There is an insufficient water flow rate at the toilet inlet.	Make sure the flow rate at the toilet inlet is 3–5 gpm (11.4–18.9 lpm), which is the recommended rate.
	The screen at the water valve inlet is clogged.	Clean the screen, on the inlet side, using a cotton swab or an old toothbrush. Do not disassemble the valve.
	The water valve is worn or damaged.	Replace the water valve. Refer to "Replacing the Water Valve" on page 13.
	There are plugged rim wash holes or a plugged rim jet (300 series only) in the toilet.	Clean the rim wash holes or rim jet.
Odor emits from the toilet when the flush ball is open.	The holding tank vent is plugged.	Clear obstructions from the vent. Refer to the tank owner's manual.
	The odor is from the holding tank contents.	Add deodorant to the holding tank.

Problem	Possible Cause	Suggested Remedy
<p>Odor emits from the toilet when the flush ball is closed.</p>	<p>There is no water in the bowl.</p>	<p>Add water to the bowl. Refer to “Adding Water to the Bowl” on page 9.</p>
	<p>The flush ball seal is damaged.</p>	<p>Replace the flush ball seal. To replace the flush ball seal, refer to the detailed instructions included with the flush ball seal replacement kit.</p>
	<p>The floor flange seal is damaged.</p>	<p>Replace the floor flange seal. Refer to “Removing an Existing Toilet” on page 7 and “Installing the New Toilet” on page 8, using the existing toilet and a new seal throughout the procedures.</p>
<p>The flush ball will not close completely.</p>	<p>There is too much friction between the flush ball and the seal.</p>	<p>Clean and lubricate the flush ball and flush ball seal with silicone spray or furniture polish.</p>
<p>The flush ball will not operate properly.</p>	<p>The ball pivot arm may have become dislodged when cleaning beneath the flush ball and seal.</p>	<p>Re-engage the ball pivot arm back into the pivot point. Refer to Figure 16 for the location of the pivot point.</p>
<p>The hand sprayer leaks.</p>	<p>The hand sprayer is defective.</p>	<p>Replace the hand sprayer. Refer to the hand sprayer owner’s manual.</p>
<p>Water is leaking from the water valve.</p>	<p>The water line connection is loose or not seated properly.</p>	<p>Make sure that the threads are not cross-threaded and tighten the connection.</p>
	<p>The water valve is damaged or defective.</p>	<p>Replace the water valve. Refer to “Replacing the Water Valve” on page 13.</p>
<p>Water is leaking from the toilet base.</p>	<p>The toilet is not secured to the floor.</p>	<p>Tighten the toilet mounting bolts. Follow the steps in “Installing the New Toilet” on page 8.</p>
	<p>The floor flange seal is worn or defective.</p>	<p>Replace the floor flange seal. Refer to “Removing an Existing Toilet” on page 7 and “Installing the New Toilet” on page 8, using the existing toilet and a new seal throughout the procedures.</p>

Problem	Possible Cause	Suggested Remedy
Water is leaking from the rear of the toilet.	There is a loose vacuum breaker.	Make sure the vacuum breaker stem is pushed fully into the sealing grommet in the back of the bowl (310 and 320 series), or securely connected to the rim jet (300 series).
	The vacuum breaker is damaged or defective.	Replace the vacuum breaker. Follow the instructions provided with the new vacuum breaker.
	The supply hose is damaged or defective.	Tighten the supply hose clamps. Replace the supply hose.
	The toilet bowl is cracked or defective.	Replace the toilet.

7 Disposal



Place the packaging material in the appropriate recycling waste bins, whenever possible. Consult a local recycling center or specialist dealer for details about how to dispose of the product in accordance with all applicable national and local regulations.

8 Warranty Information

Refer to the sections below for information about warranty and warranty support in the US, Canada, and all other regions.

8.1 United States and Canada

LIMITED WARRANTY AVAILABLE AT WWW.DOMETIC.COM/WARRANTY.

IF YOU HAVE QUESTIONS, OR TO OBTAIN A COPY OF THE LIMITED WARRANTY FREE OF CHARGE, CONTACT:

DOMETIC CORPORATION
CUSTOMER SUPPORT CENTER
5155 VERDANT DRIVE
ELKHART, INDIANA 46516
1-800-544-4881 OPT 1

8.2 All Other Regions

The statutory warranty period applies. If the product is defective, please contact the manufacturer's branch in your region (see the back of the instruction manual for the websites) or your retailer.

For repair and guarantee processing, please include the following documents when you send in the device:

- A copy of the receipt with purchasing date
- A reason for the claim or description of the fault