



SANITATION TOILET
OWNER'S MANUAL

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Introduction

The Lippert Sanitation Toilet are designed for use in recreational vehicles (RVs).

Additional information about this product can be obtained from [lci1.com/support](https://support.lci1.com/support) or by downloading the free LippertNOW app in Apple App Store® for iPhone® and iPad® and also on Google Play™ for Android™ users. App Store® and iPad® are registered trademarks of Apple Inc. Google Play™ and Android™ are trademarks of Google Inc.

For information on the assembly or individual components of this product, please visit:

<https://support.lci1.com/sewer-and-fresh-water/>

Note: Images used in this document are for reference only when assembling, installing and/or operating this product. Actual appearance of provided and/or purchased parts and assemblies may differ.

Safety

Read and understand all instructions before installing or operating this product. Adhere to all safety labels.

This manual provides general instructions. Many variables can change the circumstances of the instructions, i.e., the degree of difficulty, operation and ability of the individual performing the instructions. This manual cannot begin to plot out instructions for every possibility, but provides the general instructions, as necessary, for effectively interfacing with the device, product or system. Failure to correctly follow the provided instructions may result in death, serious personal injury, severe product and/or property damage, including voiding of the Lippert limited warranty.

WARNING

Failure to follow instructions provided in this manual may result in death, serious personal injury and/or severe product and property damage, including voiding of the component warranty.

CAUTION

Always wear eye protection when performing service, maintenance or installation procedures. Other safety equipment to consider would be hearing protection, gloves and possibly a full face shield, depending on the nature of the task.

Operation

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.

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

Fig. 1



Flushing the Toilet

1. To flush, depress the pedal until it almost 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.

Note: Residual water trickle in the ceramic bowls: Due to the integrated rim of the 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”.

Note: To prevent holding tank odors from entering the living space, make sure 1" 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.”

⚠ CAUTION

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.

⚠ WARNING

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.

Maintenance

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

- Do not separate the ceramic bowl from the plastic base. The bowl and base of the 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.

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

Performing Routine Toilet Cleaning

For routine cleaning, use a non-abrasive bathroom and toilet bowl cleaner. Follow label instructions.

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 (Fig. 2).

1. Remove minor debris from the flush ball and seal by slowly depressing and releasing the flush pedal several times (Fig. 1). This will loosen and rinse debris from the surfaces. Repeat several times for stubborn build-up.
2. If step 1 does not fully clean the ball and seal, clean with a soft bristle brush and non-abrasive toilet bowl cleaner.
3. 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.

Note: 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.

Note: 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.

Fig. 2



⚠ WARNING

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

⚠ CAUTION

This toilet is not intended for use when exposed to temperatures below freezing. Failure to follow the intended use guidelines could result in minor or moderate injury.

Preventing a Frozen Water Valve

These toilet water valves (Fig. 3) 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. 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 the appropriate series toilet water valve kit. If the water valve is returned for a warranty claim, Lippert reserves the right to deny the claim if the problem is caused by freeze damage.

Note: Use nontoxic antifreeze (propylene glycol) designated for potable water systems (See the unit owner's manual).

Note: The toilet warranty expressly excludes coverage for any damages to the toilet or the unit 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.

When a toilet may be exposed to temperatures below freezing, the toilet must be winterized using the "Non-toxic Antifreeze Winterization Method" or the "Drain Water from the Toilet Method." 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."

Fig. 3



Non-toxic Antifreeze Winterization Method

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.

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

Drain Water from the Toilet Method

1. Turn off the water supply to the toilet.
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.

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

Replacing the Water Valve

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

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

Reconditioning the Flush Ball Seal

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

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" before you replace the flush ball seal.

Troubleshooting

What is Happening	Why?	What Should Be Done?
Odor emits from the toilet when the flush ball is open.	The holding tank vent is plugged.	Clear obstructions from the vent.
	The odor is from the holding tank contents.	Add deodorant to the holding tank.
Odor emits from the toilet when the flush ball is closed.	There is no water in the bowl.	Add water to the bowl. Refer to "Adding Water to the Bowl."
	The flush ball seal is damaged.	Replace the flush ball seal. To replace the flush ball seal, refer to the detailed instructions included with the flush ball seal replacement kit.
	The floor flange seal is damaged.	Replace the floor flange seal. Refer to "Removing an Existing Toilet" and "Installing the New Toilet" in the Sanitation Toilet Aftermarket Manual.
The flush ball will not close completely.	There is too much friction between the flush ball and the seal.	Clean and lubricate the flush ball and flush ball seal with silicone spray or furniture polish.
The flush ball will not operate properly.	The ball pivot arm may have become dislodged when cleaning beneath the flush ball and seal.	Re-engage the ball pivot arm back into the pivot point.
Water is leaking from the water valve.	The water line connection is loose or not seated properly.	Make sure that the threads are not cross-threaded and tighten the connection.
	The water valve is damaged or defective.	Replace the water valve. Refer to "Replacing the Water Valve."
Water is leaking from the toilet base.	The toilet is not secured to the floor.	Tighten the toilet mounting bolts. Follow the steps in "Installing the New Toilet"
	The floor flange seal is worn or defective.	Replace the floor flange seal. Refer to "Removing an Existing Toilet" and "Installing the New Toilet" in the Sanitation Toilet Aftermarket Manual.
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.
	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.

What is Happening	Why?	What Should Be Done?
Water will not stay in the bowl.	The flush ball seal is not properly positioned.	Refer to "Reconditioning the Flush Ball Seal."
	The flush ball seal's shape is temporarily distorted.	Refer to "Reconditioning the Flush Ball Seal."
	The flush ball or flush ball seal is dirty	Clean and seal the flush ball. Refer to "Cleaning the Flush Ball and Seal."
	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."
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, 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."



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