



Kohler Toilets:

K-3394 San Raphael™ Pressure Lite™
Vitreous China Siphon Jet Toilet

K-3404 Rialto™ Pressure Lite™
Vitreous China Siphon Jet Toilet

Owner's Manual

IMPORTANT OWNER INFORMATION

ATTENTION OWNER: This manual has been designed to acquaint you with the operation, care and cleaning, and general maintenance of your new Kohler Pressure Lite™ Toilet.

READ AND FOLLOW ALL INSTRUCTIONS

INSTALLER HAZARD NOTIFICATION



WARNING: Risk of injury or water damage.

Contents of reservoir under pressure can cause severe injury. Do not open or service before reading installation instructions or service instructions. Turn off water supply and flush unit to release pressure before attempting any service.



CAUTION: Risk of product damage. Do not use any oils or lubricants on the Pressure Lite system.



CAUTION: Risk of product damage. The fittings in this toilet require no adjustment. The fittings in this toilet are preset. Any adjustment or modifications of the product are not normal usage and void the warranty.



WARNING: Risk of injury or product damage.

Handle vitreous china products very carefully. Vitreous china can break and chip if you overtighten bolts and nuts.

NOTICE: Follow all local plumbing and electrical codes.

PRODUCT PROPERTIES

- Vitreous china siphon jet toilet.
- Pressure Lite™ system.
- Water depth from rim is 5-3/4".
- 2-1/4" passageway.
- Fixture dimensions are nominal and conform to tolerances by ANSI/ASME standards (A112.19.2).
- These toilets require 20 pounds per square inch (P.S.I.) static pressure at the supply stop. Static pressure must not exceed 80 P.S.I. at the supply stop.

SAVE THESE INSTRUCTIONS

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INTRODUCTION

All information in this manual is based on the latest product information available at the time of publication. Kohler Co. reserves the right to make changes in product characteristics, packaging, or availability at any time without notice.

Identify and record below the model and serial number:

Model No. _____ Serial No. _____ Date of Manufacture _____

1. THEORY OF OPERATION

A. COMPONENTS

Your new Kohler Toilet with its Pressure Lite System consists of three basic component groups.

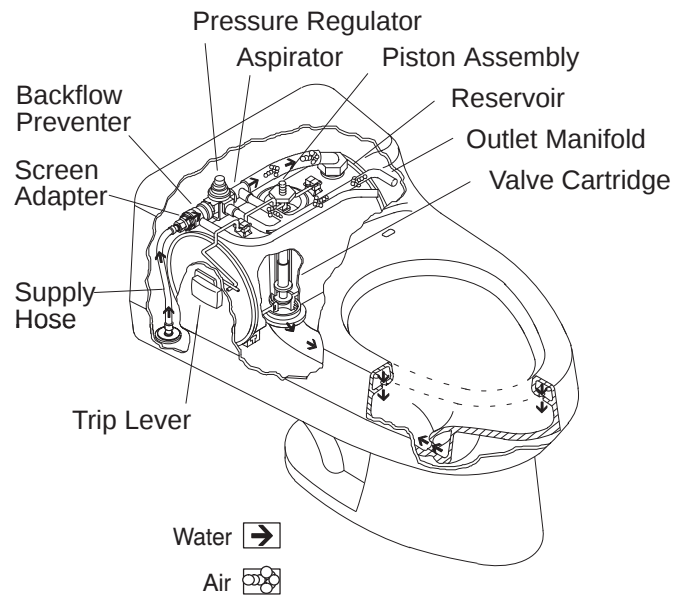
- **The vitreous china bowl and tank:** directs the flushing water flow and houses the Pressure Lite system.
- **The reservoir:** contains the complete operating cartridge assembly and is the container for the pressurized 1.6 gallons of water used for each flush.
- **The control components:** consists of the backflow preventer, pressure regulator, aspirator, and outlet manifold. These components work with the incoming pressurized supply line water to provide a regulated pressure flush to the toilet bowl.

B. FLUSH CYCLE

Your Kohler Lite toilet is designed to flush completely and efficiently using only 1.6 gallons of water per flush (gpf) as opposed to non-water saving toilets which can use up to 7 gallons per flush. Your one-piece toilet also features the Pressure Lite operating system that uses incoming water supply line pressure to compress air in a reservoir within the vitreous china tank.

A complete flush cycle is actually two separate functions.

1. When the trip lever is operated, the reservoir piston assembly is lifted allowing water under pressure to be directed to the siphon jet bowl for complete flushing action. As the water level in the reservoir drops the piston will close, stopping water flow to the bowl.
2. After flushing, a charge cycle takes place. Supply line water flows into the reservoir through the backflow preventer and pressure regulator; then across the aspirator which mixes a small amount of air with the water, filling the reservoir until a pressure of approximately 20 p.s.i. is reached. The toilet will be ready for the next flush within 60 to 90 seconds. If the toilet is not ready for the next flush within that time, refer to the troubleshooting chart.



2. CARE AND CLEANING INSTRUCTIONS

A. CLEANING YOUR VITREOUS CHINA TOILET

 **CAUTION: Risk of product damage.** Do not use any oil or lubricants on the Pressure Lite system. This may result in damage to the system.

NOTE: Cleaning of the Pressure Lite system is not necessary. If cleaning is desired, use only mild soap and water.

If you live in a hard water area, you should make certain that the holes in the rim are kept clean for proper bowl flushing. Toilet bowl cleaners should be used at least once a week. Use a long-handled brush to clean the rim holes and to clean as far into the trap as possible to prevent mineral deposits from forming.

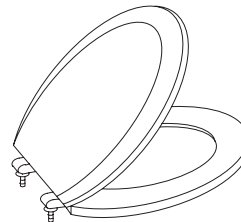
Do not use abrasive cleaners or solvents.

 **WARNING: Do not use in-tank cleansers.** Products containing chlorine (calcium hypochlorite) can seriously damage fittings in the tank. This damage can cause leakage and property damage.

Kohler Company shall not be responsible or liable for any damage to these tank fittings caused by the use of cleansers containing chlorine (calcium hypochlorite).

B. CLEANING YOUR PLASTIC TOILET SEAT

Kohler toilet seats are color-matched to Kohler fixtures. Properly cared for, they will last for years. Use only a mild detergent such as dishwashing soap when cleaning the seat. When you clean your toilet, make sure you immediately wipe off any cleaner that may remain on the seat. This is especially important around the hinge areas and bumpers of the toilet seat. An application of Lemon Pledge will restore the gloss to plastic toilet seats. Do not use cleaners containing alcohol or pine oil as they may cause damage.

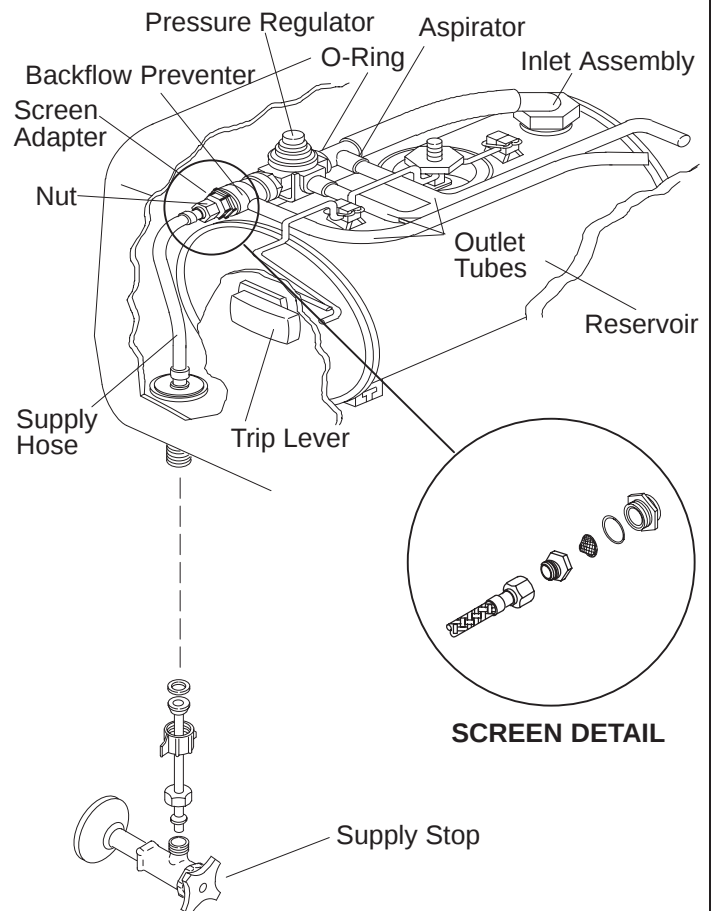


3. MAINTENANCE

A. WINTERIZING

If your new toilet is in a bathroom or suite which might experience freezing temperatures, winterizing the toilet is recommended.

1. Shut off the water supply. Flush the toilet. Hold the trip lever down for approximately one minute to drain the water from the tank assembly. Disconnect the water supply line.
2. To clean any remaining water from the screen adapter, backflow preventer, and pressure regulator, disconnect the supply hose from the backflow preventer by turning the nut counterclockwise. Disassemble the screen adapter, and clean the screen with a medium to hard bristle brush. Replace the screen if necessary. After the screen is clean, reassemble in reverse order making sure the screen is assembled correctly (see screen detail).
3. Disconnect the outlet tubes from the screen adapter, backflow preventer, pressure regulator and aspirator. Snap the backflow preventer, pressure regulator, and aspirator assembly upward and out of the inlet assembly.
4. While holding the aspirator firmly, turn the pressure regulator and backflow preventer counterclockwise out of the aspirator. **NOTE:** Be careful not to drop the O-ring. Once removed, shake any water from the backflow preventer and pressure regulator.
5. Replace these assemblies in reverse order making sure the O-ring is reinstalled between the backflow preventer, pressure regulator, and aspirator.
6. Add antifreeze to the toilet bowl water to prevent freezing. Use recreational-type antifreeze commonly used in campers, motor homes, and boats.



B. RECHARGING

Connect the water supply. Turn on the water supply to bring the Pressure Lite System to operating pressure (approximately one minute). Check all connections for leaks. Flush the toilet a minimum of three times to stabilize the Pressure Lite system.

4. TROUBLESHOOTING CHART

The troubleshooting guide below is meant for general aid only. All fittings in this toilet except for the piston nut are preset by the manufacturer to prevent adjustment. Any attempt to adjust the fittings (except the piston nut and winterizing) may damage the toilet. Such adjustments for modifications of this product are not normal usage and will void the warranty. For proper trip lever adjustment procedures, refer to Adjustment Location and Procedure on page 9 in this manual. Any problems not covered in this chart should be referred to your installer/dealer.

SYMPTOMS	PROBABLE CAUSES	CORRECTIVE ACTION
1. No flush.	A. Supply stop closed.	A. Fully open supply stop.
	B. Trip lever loose.	B. Tighten trip lever nut (turn counterclockwise to tighten).
	C. Trip lever does not actuate piston.	C. Adjust piston nut (refer to Page 9).
	D. Obstruction within water inlet components.	D. Replace inlet components (refer to installer/dealer for assistance).
	E. Screen adapter is clogged.	E. Disassemble screen adapter and clean the screen with a medium to hard bristle brush. (Refer to Steps 1. and 2. on Page 7 or installer/dealer.) Replace the screen if necessary.
2. Poor flush.	A. Bowl rim holes clogged	A. Clean under bowl rim.
	B. Trapway or drain line clogged.	B. Plunge bowl, auger trap, auger drain to clear blockage.
	C. System not pressure charged.	C. Adjust piston nut for proper actuation arm gap (refer to page 9).
	D. Supply stop not opened.	D. Fully open supply stop.
	E. Drain line vent clogged.	E. Refer to installer/dealer for assistance.
	F. Screen adapter is clogged.	F. Disassemble screen adapter and clean the screen with a medium to hard bristle brush. (Refer to Steps 1. and 2. on Page 7 or installer/dealer.) Replace the screen if necessary.
3. Bowl water continues to flow or tank fill water will not shut off.	A. Piston assembly not seating properly.	A. Adjust gap between trip lever and piston actuation arm (refer to Page 9).
	B. Piston actuation arm binding.	B. Repair or replace actuation arm (refer to installer/dealer for assistance).
	C. Pressure regulator not working.	C. Replace unit (refer to installer/dealer for assistance).

5. ADJUSTMENT LOCATION AND PROCEDURE

A. ADJUSTMENT

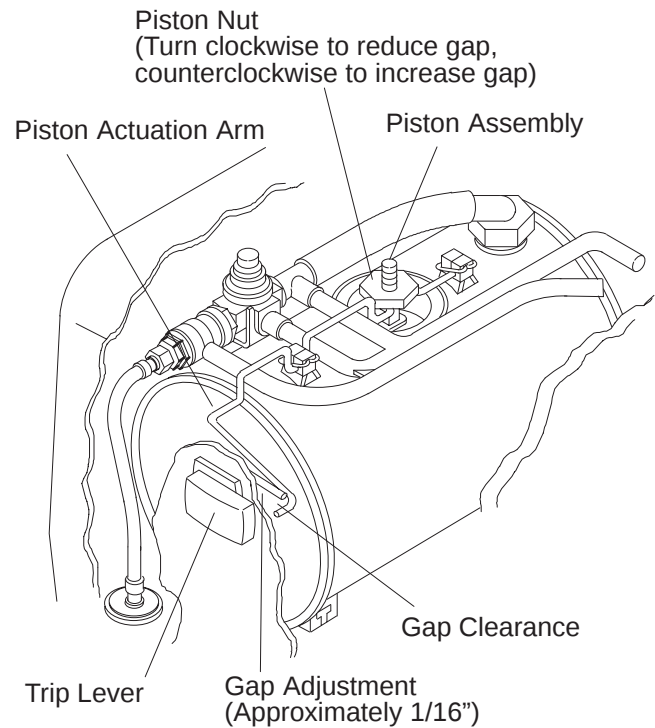
NOTE: Prior to adjustment of actuation arm or trip lever, **always** check the reservoir mounting wing nuts on the bottom of the toilet tank to ensure they are tight.

If the toilet does not activate, the gap between the trip lever and piston actuation arm may need to be reset. Make sure the trip lever handle is installed, and the trip lever nut is tight. This is a left-hand thread; turn it counterclockwise to tighten.

Make sure the water supply is on, and the supply line water has stopped flowing into the toilet.

Turn the piston nut until there is a $\frac{1}{32}$ " to $\frac{1}{16}$ " gap between the trip lever and the piston actuation arm. Turn the piston nut clockwise to reduce the gap.

NOTE: Loss of gap clearance adjustment could cause leakage into the toilet bowl due to the piston not sealing properly. This condition could cause a continuous flow of water. If the problem is not corrected after adjustment, refer to the troubleshooting chart.



B. ADDITIONAL SERVICE INFORMATION

If you would like further service information, you may order the service manual for this toilet from your dealer. If you do not want the service manual and the previous chart has not solved the problem, please refer to your installer or plumber.

6. IMPORTANT CONSUMER INFORMATION

REQUESTING SERVICE

Please take a moment to familiarize yourself with the Kohler Warranty, its benefits, and limitations. Kohler Co. and its distributors support you with one of the largest Service Networks of its type. Here's what you need to do if you require service:

1. Contact the dealer or contractor who sold and installed the product. They should be able to solve any problems you may have.
2. If your dealer or contractor cannot solve the problem, they will contact or supply you with the name of the local Kohler Distributor and the:



KOHLER TECHNICAL SPECIALIST

3. If you are unable to obtain warranty service through either your contractor or Kohler Co. distributor, please write us directly at Kohler Co., Consumer Affairs, Kohler, Wisconsin 53044
4. Include all pertinent information regarding your claim, including a complete description of the product, model numbers, colors, finishes, and the date the product was installed. Include a description of the problem, and a photocopy of your invoice for the products involved. Also give us the name of the contractor and distributor.

LIMITED ONE-YEAR WARRANTY

Kohler plumbing fixtures and fittings are warranted free of manufacturing defects.

Kohler Co. will, at its election repair, replace, or make appropriate adjustment where Kohler Co. inspection discloses any such defects occurring in normal usage within one year after installation. Kohler Co. is not responsible for installation costs.

To obtain warranty service, contact Kohler Co. either through your Dealer or Plumbing Contractor or by writing Kohler Co., Attn: Consumer Affairs Department, Kohler, WI 53044 U.S.A.

Implied warranties, including that of merchantability, are expressly limited in duration to the duration of this warranty. Kohler Co. disclaims any responsibility for consequential damages.

Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so this limitation and exclusion may not apply to you. This warranty gives you specific legal rights. You may also have rights which vary from state to state.

This is our exclusive written warranty.

KOHLER CO., KOHLER, WISCONSIN 53044

