Dometic®
GRAVITY DISCHARGE TOILET OWNER'S MANUAL

Dometic® 500 *Plus* Series, 2000 Series, Model 111 Toilet

⚠ WARNING

This manual must be read and understood before installation, adjustment, service, or maintenance is performed. Modification of this product can result in property damage.

Dometic®

Dometic Corporation, Sanitation Division
13128 State Rt 226, PO Box 38
Big Prairie, OH 44611
Dometic Product Customer Service: 1-800-321-9886
www.DometicUSA.com

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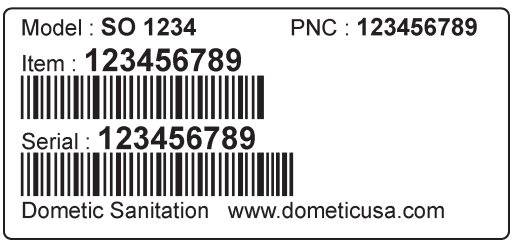
IMPORTANT INFORMATION

1. Do not use chlorine or caustic chemicals, such as laundry bleach or drain-opening types, in the system. These products damage the seals in toilets and dump valves.
2. Do not permit foreign objects (paper towels, paper cups, diapers, sanitary napkins, etc.) to be flushed through the toilet.
3. Mechanical seal toilets, like Dometic units, are designed to only discharge directly into a holding tank. Horizontal pipe runs as found in conventional residential or commercial plumbing systems cannot be accommodated.
4. Toilet must be regularly cleaned and winterized according to “Cleaning” and “Winterizing and Storage” procedures in this manual, or your warranty coverage may be voided.

TOILET MODEL IDENTIFICATION

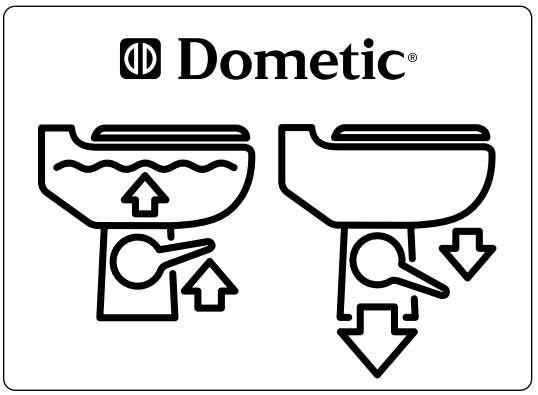
The model identification label is located on the toilet base and will show the model number and serial number. Follow instructions for removing toilet pedestal cover in “Pedestal and Pedal Cover Installation” on page 3. If label is not available, please refer to “Dimensional Specifications” on page 4 for toilet model identification.



HOW TO USE

To prepare the Dometic toilet for use, make sure water supply to the toilet is connected. Turn on water supply and check system for leaks. Flush toilet and check again for leaks.

Make sure the flushing instruction label (shown at right) is in plain sight and easy for guests to read. **If this label is not included in this manual, please contact the Dometic Product Customer Service Department immediately.**



To properly use the Dometic toilet, follow these simple instructions:

1. **To add water to the toilet**, lift or raise the flush pedal until desired water level is reached. Generally, more water is required only when flushing solids.
2. **To flush toilet**, push pedal all the way down until contents leave toilet bowl. Water flow pressures vary at different locations, therefore holding the flush pedal down for 4-8 seconds may be required. We require a minimum flow at the inlet of the toilet of 2 gpm (7.6 lpm) for proper flushing.
3. Allow flush pedal to snap back, which permits positive sealing around the flush ball.
4. A small amount of water should remain in bowl.

Note: Holding flush lever down longer than necessary results in excessive water usage.

INSTALLATION

1. To replace an older toilet, turn off water supply to toilet. Disconnect water line at toilet water valve. Unscrew floor bolt nuts and remove toilet. Discard old floor seal and mounting bolts. The old floor flange may be used if it is in good condition and has fastener holes that are positioned correctly. Make sure center of floor flange is at least 11 inches (279 mm) from back wall (Figure A).

   NOTE: If old floor flange cannot be used and cannot be removed, please use a SeaLand Universal Mounting Kit, available from your Dometic dealer.
2. When installing new floor flange, make certain that the toilet mounting bolts align properly with Dometic toilet mounting pattern.
3. Secure flange to floor using flat head screws through countersunk holes in flange. Insert floor bolts into slotted holes in flange (Figure B).
4. If toilet is being installed in a shower stall, apply a 1/4" thick by 3/4" wide bead of glazing compound around the circumference of the floor flange (Figure C).
5. Dometic toilet models 111, 510 and 511 will accept handicap or household decorative seats. Remove existing seat and replace with new seat if desired.
6. Position floor seal by pressing the floor bolts up through holes in the seal.
7. Set toilet in place with bolts protruding up through mounting holes in base (Figure D).
8. Install washers and hex nuts provided with toilet. Tighten nuts down equally with standard 7/16" open end wrench. Remove excess glazing compound from around base in shower stall installation.
9. Connect water supply line to water valve (1/2" NPT) inlet using appropriate fittings or an extension (Figure E).
10. Turn on water supply and flush toilet to test for leaks.
11. Attach pedestal and pedal covers to toilet base (see instructions below).

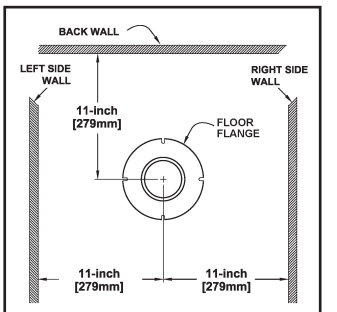


Fig. A

Fig. B

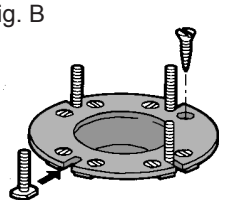


Fig. C

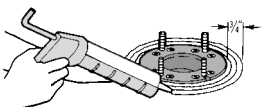


Fig. D

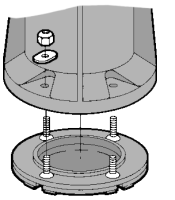
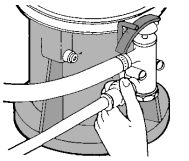
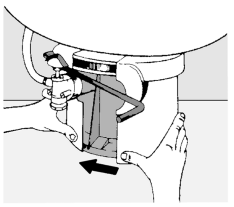


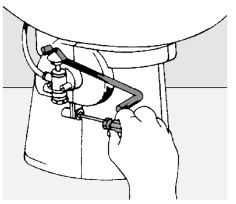
Fig. E



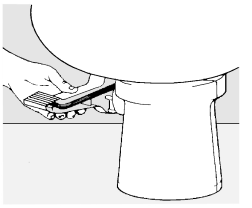
PEDESTAL AND PEDAL COVER INSTALLATION



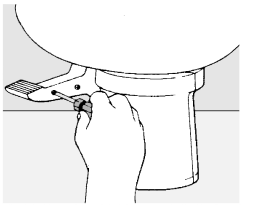
1. Wrap pedestal cover around base so that it closes as shown.



2. Tall model – screw cover together. Short model – snap together.



3. Slide pedal cover onto foot pedal rod.



4. Secure side plate onto pedal cover with screws.

CLEANING

BOWL CLEANING: For routine cleaning, use SeaLand® Toilet Bowl Cleaner (Fig. A). If this SeaLand cleaner is not available in your area, use most any non-abrasive bathroom and toilet bowl cleaner (Bar Keeper's Friend® spray cleaner, Clorox® toilet bowl cleaner, Sani-Flush® toilet bowl cleaner, etc.). Please follow label instructions.

Fig. A

To avoid damaging the seal, DO NOT USE:
– abrasives (Comet®, Soft Scrub® cleansers, etc.)
– caustic chemicals (Drano® clog remover, etc.)
– lubricants and cleaners containing alcohols or petroleum distillates (Pam® cooking spray, Pine-Sol® cleaner, WD-40® lubricant, etc.).

FLUSH BALL CLEANING: 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.

1. Remove minor debris from the flush ball and seal by slowly pressing 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. Turn off water supply to toilet. Fully clean the top of the flush ball and under the seal where it contacts the flush ball.
3. After cleaning under seal, apply light downward pressure to top of seal while brushing around full perimeter of seal.
4. Turn on water supply. Press flush lever to open flush ball, and use brush and water to rinse away cleanser and deposits.

® Bar Keepers Friend is a registered trademark of SerVaas Laboratories Inc.
® Clorox, Pine-Sol and Soft Scrub are registered trademarks of The Clorox Co.
® Comet is a registered trademark of Prestige Brands International.
® Drano is a registered trademark of S.C. Johnson & Son Inc.
® Pam is a registered trademark of ConAgra Foods.
® Sani-Flush is a registered trademark of Reckitt Benckiser Inc.
® Teflon is a registered trademark of DuPont Co.
® WD-40 is a registered trademark of WD-40 Company.

WINTERIZING AND STORAGE

When a Dometic toilet is stored for long periods of time or may be exposed to temperatures below freezing, the toilet must be winterized or stored according to one of the following procedures.

Caution
This toilet is not intended for use when exposed to temperatures below freezing.

Caution
Never use automotive-type antifreeze (ethylene glycol) in freshwater systems.

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

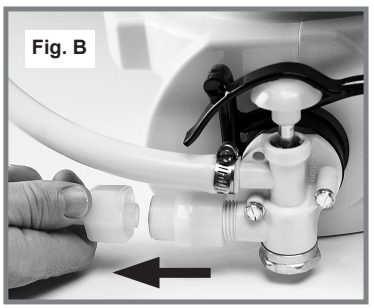


Fig. B

Storage options

Non-toxic Antifreeze Winterization (recommended method)

1. Pour antifreeze in potable water tank according to instructions from antifreeze manufacturer.
2. Flush toilet several times until antifreeze has flowed completely through toilet. For toilets with hand sprayer, the hand sprayer must be turned on to assure antifreeze is cycled through the sprayer.

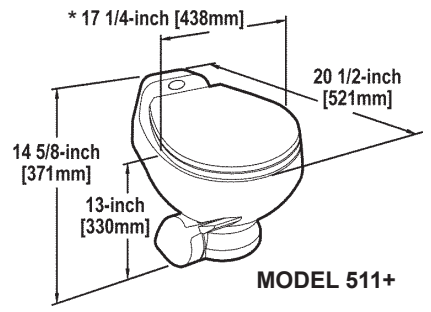
Drain Water from Toilet

1. Turn off water supply to toilet.
2. Remove water supply line from water valve (Fig. B).
3. Place a small container under water valve inlet to catch draining water.
4. Press flush pedal and allow water to completely drain from water valve and vacuum breaker.
5. Leave water line disconnected until threat of freezing temperature is past.

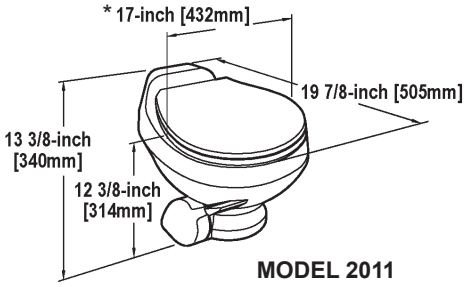
Note
Never leave vehicle or premises unoccupied for extended periods of time with municipal water supply or onboard water pump turned on when there is a possibility of freezing temperature.

Caution
Toilet warranty does not cover freeze damaged water valve that may result from improper winterization.

DIMENSIONAL SPECIFICATIONS

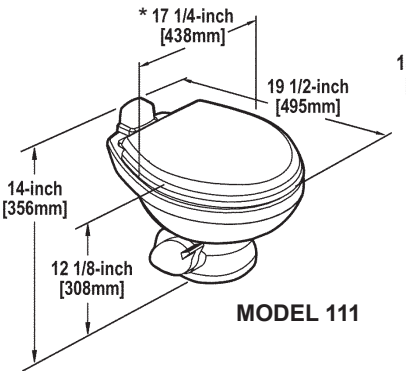


MODEL 511+



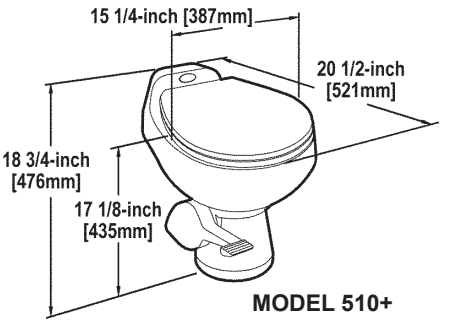
MODEL 2011

* Width measurement includes flush pedal.

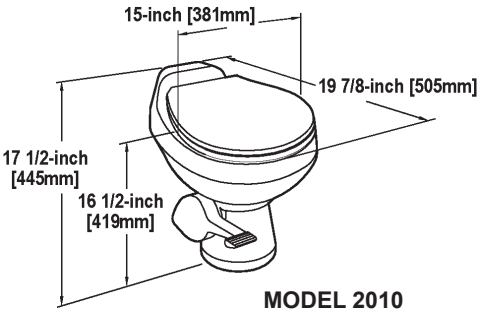


MODEL 111

All dimensions may vary ± 3/8-inch (10mm).



MODEL 510+



MODEL 2010

DEODORANTS AND SPECIAL TISSUE

Dometic toilets require the regular addition of a deodorant product to reduce holding tank malodors and to help break down holding tank contents. Several factors should be considered in selecting a deodorant product.

Liquid or Granulated: Liquid products obviously work more quickly by readily going into solution. Granulated powder formulations, on the other hand, have the advantage of requiring less storage space and are less likely to leak if the package is inadvertently damaged.

How Much Deodorant and How to Add It: The deodorant is added directly into the toilet bowl, then flushed into the holding tank. Follow bottle or package instructions. Conditions of extremely warm weather, longer waste holding time and larger tank capacities may require more deodorant treatment. Also, to maintain optimum efficiency in odor control, the waste holding tank should be cleaned thoroughly at least once or more each season depending on use.

Why Not Use Household Toilet Paper in Your Dometic Toilet. Household tissues often contain adhesives which bond together the paper fibers from which the tissue is made. The adhesives prevent the tissue from breaking apart, and their use in “ultra-low flow” systems can cause system clogging. SeaLand tissue is especially designed for use in low water toilet systems. Its rapid dissolving properties minimize the amount of residual paper in the holding tank and allow deodorizers to work more efficiently.

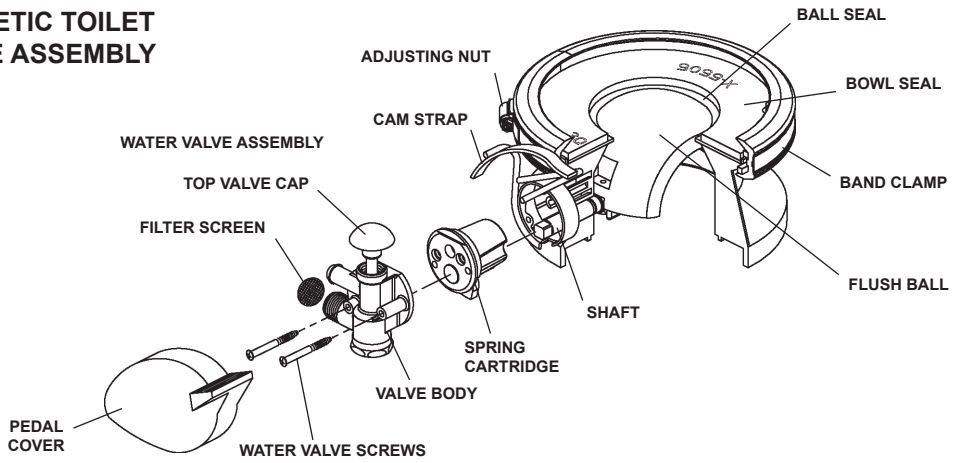
SeaLand and Dometic Brands versus Other Brands: We constantly strive to provide our toilet system owners with effective products that have minimal environmental impact and good value. Many deodorant products do not measure up to our standards of performance and value.

SERVICE TIP

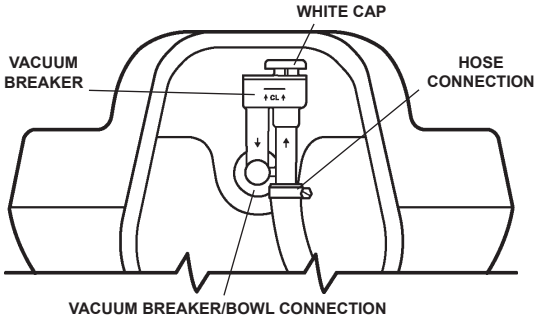
Checking for water leaks behind or under toilets or other appliances can make it difficult to locate the source. Dripping water at room temperature makes it difficult to feel wetness. Taking four or five sheets of toilet tissue and wiping all seams and waterline connections offers a simple means of locating the general area of the leakage. Start at the top of the unit since gravity will cause a leak to run downward. When the tissue comes in contact with the leaking water, it will immediately change texture.

TROUBLESHOOTING GUIDE

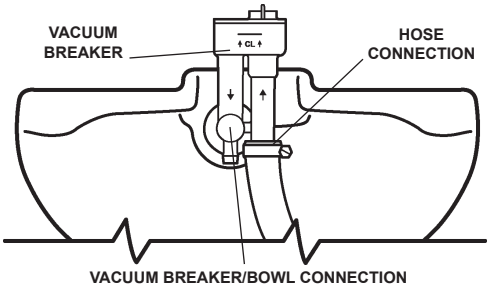
DOMETIC TOILET BASE ASSEMBLY



TOILET BOWL, REAR VIEW (Models 510+, 511+, 2010, 2011)



MODEL 111 TOILET BOWL, REAR VIEW



Problem	Possible Cause	Service Instructions
1. Toilet emits odor (flush ball open).	a. Odor emitting from base of toilet. b. Plugged holding tank vent line.	a. Use SeaLand brand deodorants. b. Clear obstruction from vent line.
2. Water will not stay in bowl.	a. Loose band clamp. b. Improper seal around flush ball due to dirt or debris on flush ball. c. Worn or damaged seal. d. Worn or damaged flush ball.	a. Tighten adjusting screw. b. Inspect flush ball and seal for foreign debris. Clean flush ball and seal if needed. c. Replace seal. d. Replace flush ball.
3. Flush ball will not close completely.	a. Too much friction between flush ball and seal. b. Water valve screws are too tight. c. Defective spring cartridge.	a. Lubricate between flush ball and seal with furniture polish (e.g. Pledge® furniture polish). b. Loosen screws slightly. c. Check spring tension by pushing flush lever down, then release it suddenly. If lever does not snap back to original position, replace spring cartridge.

® Pledge is a registered trademark of S.C. Johnson & Son Inc.

TROUBLESHOOTING GUIDE (cont'd)

Problem	Possible Cause	Service Instructions
4. Flush ball will not open.	a. Broken shaft. b. Shaft not fully engaged in the spring cartridge.	a. Replace shaft. b. Put pressure on shaft from under the flush ball (pushing into spring cartridge) until it engages. You may have to rotate flush ball slightly until shaft lines up with square in spring cartridge.
5. Flush ball does not open completely. **Applies to short-base units mounted on step or riser only.**	a. Floor flange interferes with flush ball rotation.	a. Loosen mounting bolts and push toilet base back. If this does not solve problem, install a Dometic Universal Mounting Kit (part no. 310139, 310140, or 310141) with existing floor flange.
6. Water does not shut off in toilet (toilet overflows).	a. Not enough clearance between cam strap and top of water valve cap. b. Dirt lodged in water valve seal. c. Worn or defective water valve. d. Worn or defective spring cartridge.	a. Adjust cam strap to have .02" - .06" (.5mm - 1.5mm) clearance with top of water valve cap. b. Dissassemble and clean water valve. c. Replace water valve. d. Replace spring cartridge.
7. Hand spray unit leaks.	a. Hand sprayer is defective.	a. Replace hand sprayer.
8. Water does not enter toilet bowl properly.	a. Insufficient water flow rate at toilet. b. Water valve clogged. c. Plugged rim wash holes in toilet.	a. Check water flow rate at toilet. Rate should be 2 gpm (7.6 lpm) at toilet. b. Remove and clean screen located at inlet of water valve. c. Clean holes. If still a problem, replace the toilet bowl.
9. Water is leaking from water valve.	a. Water valve body cracked due to freeze damage. b. Water line connection is loose or not seated properly. c. Defective water valve. d. Stripped threads.	a. Replace water valve. b. Insure that threads are not cross-threaded and tighten. c. Replace water valve. d. Replace water valve.
10. Water is leaking from bottom of toilet base.	a. Toilet is not secured to floor. b. Worn or defective toilet mounting floor seal. c. Cracked base. d. Worn or defective floor flange.	a. Tighten toilet mounting bolts. b. Replace floor seal between floor flange and toilet base. c. Replace base assembly. d. Replace floor flange.
11. Water is leaking from rear of toilet bowl.	a. Worn or defective vacuum breaker. b. Loose vacuum breaker. c. Cracked or defective toilet bowl.	a. Remove white cap from vacuum breaker. Flush toilet. If water leaks during flush, vacuum breaker needs to be replaced. b. Secure vacuum breaker connection. If loose, push breaker into bowl. c. Replace toilet bowl.
12. Water is leaking from the base/toilet connection.	a. Band clamp may be loose. b. Ball/bowl seal may be worn or defective.	a. Remove plastic base cover and tighten the band clamp. b. Replace ball/bowl seal.

ORDERING PARTS

Dometic is ready to assist you in the event service is required. Before calling, please have the following information available. Your cooperation in having this information ready is appreciated and allows us to better meet your needs.

1. Toilet Model Number
2. Serial Number
3. Part Number, Description and Quantity (see separate Parts List)

CUSTOMER SERVICE

There is a strong, worldwide network to assist in servicing and maintaining your sanitation system. For the Authorized Service Center near you, please call from 8:00 a.m. to 5:00 p.m. (ET) Monday through Friday.

Telephone: **1-800-321-9886** U.S.A. and Canada
330-496-3211 International

Fax: **330-496-3097** U.S.A. and Canada
330-496-3220 International

Email: **sealand@dometicusa.com**

MANUFACTURER'S TWO-YEAR AND TEN-YEAR LIMITED WARRANTIES

Dometic Corporation warrants, to the original purchaser only, that this Dometic® gravity discharge toilet, if used for personal, family or household-like purposes, is free from defects in material and workmanship for a period of two (2) years from the date of purchase.

Dometic also warrants, to the original purchaser only, that the ceramic portion of the toilet bowl will not discolor, stain, scratch or craze for a period of ten (10) years if used for personal, family or household-like purposes, and is regularly cleaned as described in the product's owner's manual.

If this Dometic product is placed in commercial or business use, it will be warranted, to the original purchaser only, to be free of defects in material and workmanship for a period of ninety (90) days from the date of purchase.

Dometic reserves the right to replace or repair any part of this product that proves, upon inspection by Dometic, to be defective in material or workmanship. All labor and transportation costs or charges incidental to warranty service are to be borne by the purchaser-user.

EXCLUSIONS

IN NO EVENT SHALL **DOMETIC** BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES, FOR DAMAGES RESULTING FROM IMPROPER INSTALLATION, OR FOR DAMAGES CAUSED BY NEGLECT, ABUSE, ALTERATION, OR USE OF UNAUTHORIZED COMPONENTS. THIS INCLUDES FAILURES WHICH MAY RESULT FROM NOT FOLLOWING THE WINTERIZATION OR CLEANING PROCEDURE AS DESCRIBED IN THIS OWNER'S MANUAL. ALL IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE, ARE LIMITED TO A PERIOD OF ONE (1) YEAR FROM DATE OF PURCHASE.

IMPLIED WARRANTIES

No person is authorized to change, add to, or create any warranty or obligation other than that set forth herein.

Implied warranties, including those of merchantability and fitness for a particular purpose, are limited to one (1) year from the date of purchase for products used for personal, family or household-like purposes, and ninety (90) days from the date of purchase for products placed in commercial or business use.

OTHER RIGHTS

Some states do not allow limitations on the duration of an implied warranty, and some states do not allow exclusions or limitations regarding incidental or consequential damages; so, the above limitations may not apply to you. This warranty gives you specific legal rights, and you may have other rights which vary from state to state.

To obtain warranty service, first contact your local dealer from whom you purchased this product.

Dometic Group is a customer-driven, world-leading provider of leisure products for the RV, automotive, truck and marine markets. We supply the industry and aftermarket with a complete range of air conditioners, refrigerators, awnings, cookers, sanitation systems, lighting, mobile power equipment, comfort and safety solutions, windows, doors and other equipment that make life more comfortable away from home.

Dometic Group supplies a wide range of workshop equipment for service and maintenance of built-in air conditioners. Dometic Group also provides specially designed refrigerators for hotel rooms, offices, wine storage and transport and storage of medical products.

Our products are sold in almost 100 countries and are produced mainly in wholly-owned production facilities around the world.

Dometic®

Dometic Corporation, Sanitation Division
13128 State Rt 226, PO Box 38
Big Prairie, OH 44611
Customer Service: 1-800-321-9886
Email: SeaLand@DometicUSA.com
www.DometicUSA.com

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