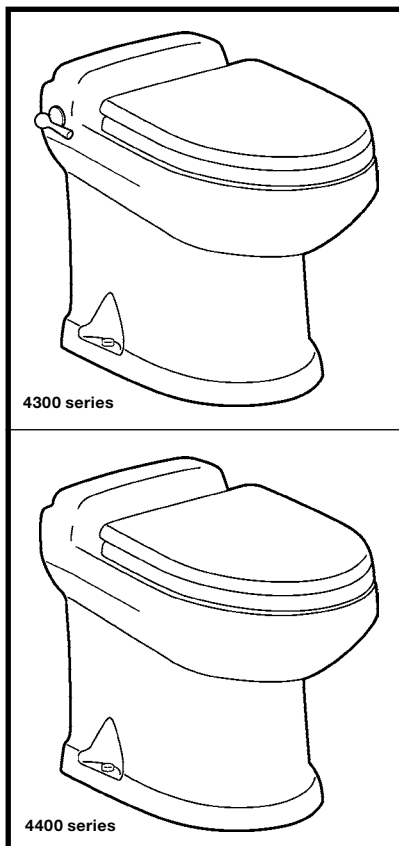




Dometic®
4300/4400 Series
Toilets
INSTALLATION

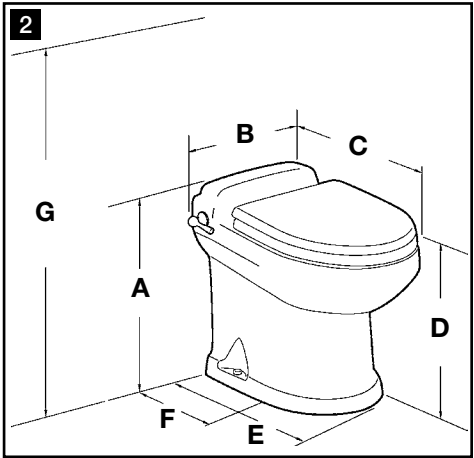
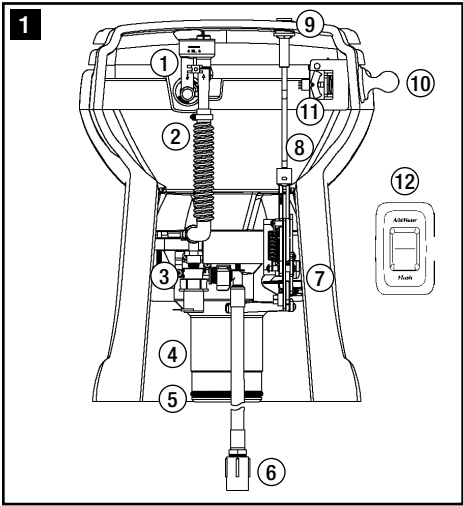


Table of contents	EN
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1	Notes on using the manual	3
2	General safety instructions	3 - 4
3	Components	4
4	Specifications	5
5	Installation	6 - 11
6	Customer service	12

1 Notes on using the manual



Caution!

Safety Instruction: Failure to observe this instruction can cause material damage and impair the function of the device.



Note

Supplementary information for operating the device.

fig. 1 A, page 2 : This refers to an element in an illustration. In this example, item A in figure 1 on page 2.

2 General safety instructions

The manufacturer will not be held liable for claims for damage resulting from the following:

- Faulty assembly or connection
- Damage to the unit from mechanical influences, misuse or abuse
- Alterations to the unit without express written permission from the manufacturer
- Use for purposes other than those described in the operating manual

2.1 Warning – recreation vehicle applications

The following statement must be read and understood before installing, servicing and/or operating this product on a recreation vehicle. Modification of this product may result in property damage.

Dometic recommends that a qualified RV technician or electrician install or service this product with regard to all applicable codes and regulations. Equipment damage, personal injury or death could result from improper installation. DOMETIC ACCEPTS NO RESPONSIBILITY OR LIABILITY FOR DAMAGE TO EQUIPMENT, OR PERSONAL INJURY OR DEATH THAT MAY RESULT FROM IMPROPER INSTALLATION, SERVICE OR OPERATION OF THIS PRODUCT.

2.2 Warnings – marine applications

The following statements must be read and understood before installing, servicing and/or operating this product on a boat. Modification of this product may result in property damage.

Dometic recommends that a qualified marine technician or electrician install or service this product. Equipment damage, injury to personnel or death could result from improper installation. DOMETIC ACCEPTS NO RESPONSIBILITY OR LIABILITY FOR DAMAGE TO EQUIPMENT, OR PERSONAL INJURY OR DEATH THAT MAY RESULT FROM IMPROPER INSTALLATION, SERVICE OR OPERATION OF THIS PRODUCT.



Caution! Hazard of Flooding

If toilet rim is below the waterline at ANY time (during any conditions of heel, load or trim) and is connected to ANY through-the-hull fittings, properly positioned ventilated (vented) loops MUST be installed in intake* or discharge piping to prevent potential back siphonage of seawater into the boat. Failure to do so can result in flooding which can cause loss of property and life.

** if connected to raw water*



Caution! Hazard of Flooding

If toilet uses raw water for flushing at ANY time, a raw water pump controlled by an automatically operating demand switch MUST NOT be installed. If the onboard water valve or any plumbing connections were to leak, the automatically operated pump would start and could flood the boat. Failure to comply can cause loss of property and life.

2.3 Warnings – all applications



Caution! Hazard of Flooding

If the toilet uses fresh water for flushing and is connected directly or indirectly to a municipal water system at ANY time, water connections MUST be disconnected if the vehicle is unattended (even if vehicle is unattended for a brief period). Failure to do so can result in flooding which can cause loss of property and life.



Caution!

Overfilling the holding tank can create serious damage to the sanitation system, such as rupturing the holding tank and releasing tank contents. To prevent this possibility, Dometic recommends using the “full” tank shut-down relay in the toilet’s electronic control module. The “full” signal from the holding tank can be generated by an optional Dometic DTM01C tank monitor or DTM04 four-level tank monitor system.



Caution! Hazard of Shock or Fire

Always use recommended fuse, circuit breaker and wire size. Failure to do so can result in fire that can cause the loss of property and life.

3 Components

(fig. **1**, page 2)

Ref.	Description
1	Vacuum breaker
2	Bowl water supply hose
3	Water valve
4	Plug-in discharge fitting
5	O-ring
6	Water line/connector
7	Flush ball motor/drive linkage

Ref.	Description
8	Manual flush lever
9	Manual flush lever access cover
10	Flush handle (4400 series)
11	Flush handle cable connector (4400 series)
12	Flush switch (4300 series)

Refer to complete parts list (packed separately) for additional information.

4 Specifications

4.1 Materials

- Toilet: vitreous ceramic
- Dometic switch panel (4300 series): polycarbonate resin
- Flush handle (4400 series): plated brass

4.2 Minimum System Requirements

Electrical	Circuit breaker	2 amps/12 V DC
	Wiring	14 gauge stranded copper
Water Supply	Fitting	0.5 in. NPT
	Flow rate	4 gpm/15 lpm minimum at toilet
	Maximum flow pressure	40 PSI / 276 kPa
Discharge	Fitting	4-bolt floor (closet) flange. 3-in. (76 mm) ID ABS or PVC connection to holding tank

Specifications are subject to change without notice.

4.3 Dimensions (fig. 2 , p. 2) All dimensions may vary ±3/8 inch (10 mm)

Models with wall-mounted flush switch

Ref.	Dimension
A	19 in. / 483 mm
B	14.75 in. / 375 mm
C	21.5 in. / 546 mm *
D	17.75 in. / 451 mm - seat height
E	17.125 in. / 435 mm *
F	11 in. / 279 mm - centerline rough-in *
G	33.75 in. / 857 mm - seat lid up

Models with flush handle

Ref.	Dimension
A	19 in. / 483 mm
B	15.875 in. / 403 mm
C	21.5 in. / 546 mm *
D	17.75 in. / 451 mm - seat height
E	17.125 in. / 435 mm *
F	11 in. / 279 mm - centerline rough-in *
G	33.75 in. / 857 mm - seat lid up

* For toilet models with hand sprayer, add 0.25 in. / 6.3 mm to dimensions C, E, F to allow small space between toilet and wall.

5 Installation

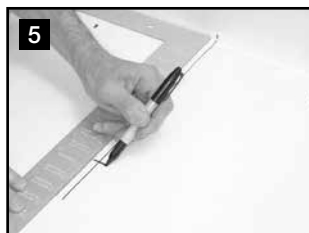
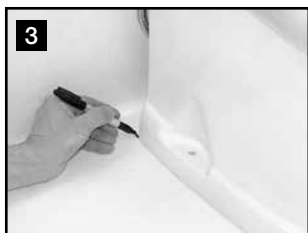
5.1 Toilet installation



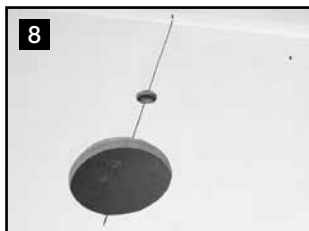
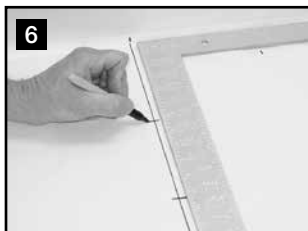
Note

If replacing an existing gravity-discharge toilet, make sure the center of the existing discharge flange is at least 10 inches (254 mm) from the back wall, then proceed to Step 5 for proper positioning of water line and electrical wiring.

1. Carefully unpack the toilet bowl and floor flange adapter.
2. Position the ceramic bowl in the space intended. Confirm that adequate clearance is available for using the flush handle and opening the seat and lid.
3. Mark the floor at the rear corners of the toilet bowl (fig. 3). Measure the distance between the two marks and divide by 2 to find the toilet centerline. Mark the floor at the rear wall for the centerline.
4. Place a carpenter's square against the back wall, and draw a center line on the floor at least 14 inches (356 mm) long (fig. 4). Mark the centerline for the floor flange at 10 inches (254 mm) from the wall (fig. 5). Add 0.25 in. (6 mm) to distance from wall if installing model with hand sprayer attached to toilet.

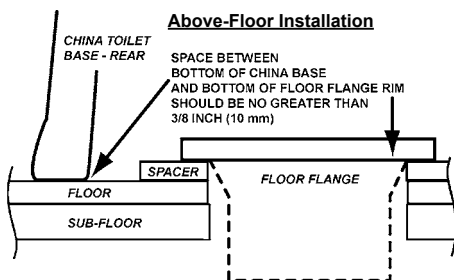
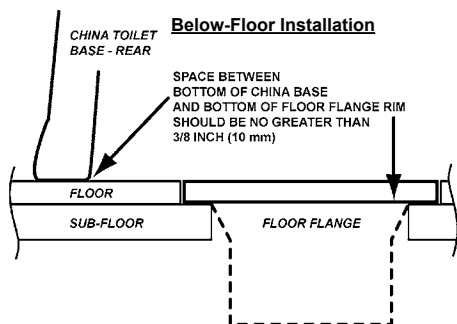


- 5a. For through-the-floor water line and electrical wires, mark another centerline 6 inches (152 mm) from the back wall (fig. 6).
 - 5b. For through-the-wall water line and electrical wires, mark a centerline 8 inches (203 mm) up from the floor centerline (fig. 7).
6. Make a 4-3/4 inch (121 mm) diameter hole (for most floor flanges) or a 5-1/8 inch (130 mm) diameter hole (for swivel joint floor flange) at the centerline mark furthest from the wall. Make a 1 inch (25 mm) hole at the mark closer to the wall for the water line and electrical wires (fig. 8).



Caution

The preferred floor flange installation method is to mount the floor flange directly on the finished floor. However, if the bottom of floor flange and bottom of ceramic toilet must be mounted at different heights, the floor flange must be mounted within 3/8 inch (10 mm) of the bottom of the toilet (see illustrations on next page) or leakage may result.



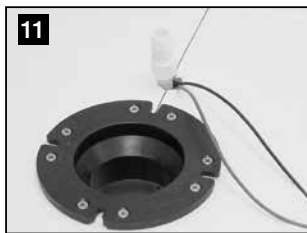
7. Insert floor flange into larger hole and secure to the floor with #12x3/4-inch long flat head wood or sheet metal screws (fig. **9**).
8. Route 1/2-inch (13 mm) PEX tubing through the smaller hole and install a PEX 1/2-inch NPT fitting (fig. **10**).



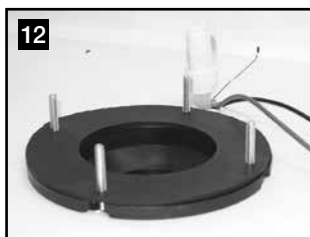
Note

A water shut-off valve should be installed in the water line to the toilet for maintenance requirements.

9. **WITH THE ELECTRICAL POWER OFF**, route #14 gauge stranded copper wire from 12 VDC ground and positive 12 VDC from the fuse panel through a 2-amp fuse or circuit breaker. Leave at least 12 inches (305 mm) of wire for connecting to toilet (fig. **11**).



10. Connect the holding tank to the bottom of the discharge flange.
11. Slide four T-bolts into the slots of floor flange. Install the flange gasket over the T-bolts (fig. **12**).
12. Install floor flange adapter with words "THIS SIDE UP" facing up. Tighten adapter to floor flange using four flat washers and hex nuts. Tighten in criss-cross pattern (fig. **13**).



**Caution**

If replacing an existing toilet that uses a 2-bolt floor flange, drill two 5/16-inch dia. holes in old floor flange that align with two additional holes in floor flange adapter. Use two #10 or 12 x 1-1/2-inch wood screws and washers for these drilled holes, and two T-bolts with flat washers and nuts to fasten flange gasket and floor flange adapter to old floor flange. Do not use old hardware or seal.

13. REMOVE RED CAP FROM FLANGE ADAPTER, lubricate O-ring with silicone grease, and temporarily set the toilet in place on the floor flange (fig. 14).

14. Mark the holes for the two toilet mounting bolts (fig. 15).

15. Pick up toilet and set aside. Drill 3/16-inch pilot holes in the floor (fig. 16).



16. With toilet close to floor flange, connect flexible water supply hose to water line fitting (fig. 17).

17. Connect the positive (+) 12 VDC wire to the red power wire that's connected to the toilet base. Connect the negative (-) 12 VDC wire to the black wire (fig. 18).

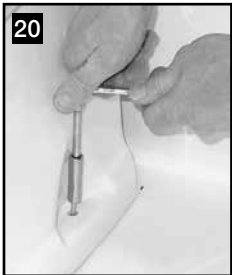
**Note:** If installing model 4410 toilet with remote switch

Install wall switch according to instructions on page 10. Route wall switch wires up through water line hole.

**Caution**

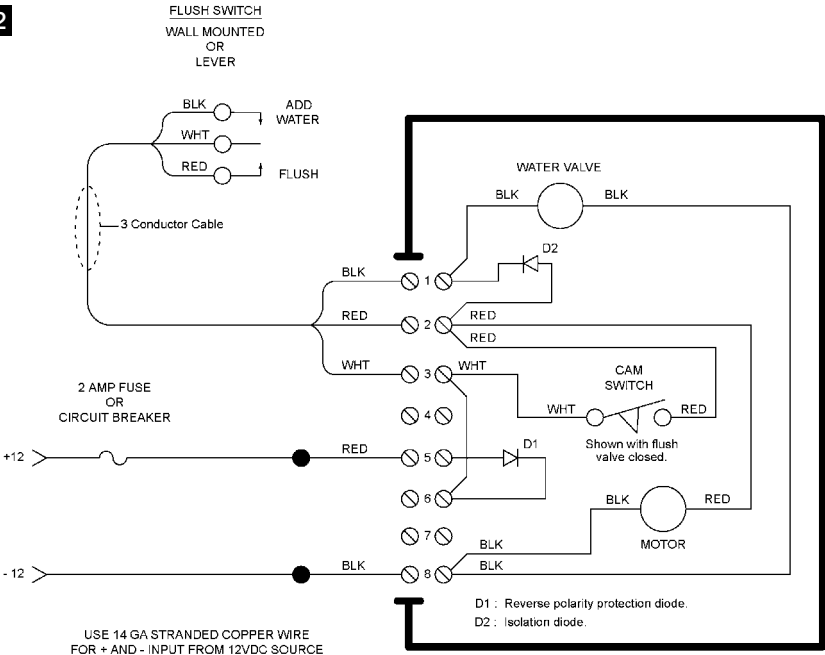
DO NOT ATTEMPT TO SLIDE THE TOILET OVER THE FLANGE ADAPTER. THE TOILET MUST BE SET DOWN OVER THE ADAPTER TO PREVENT POSSIBLE DAMAGE.

18. Set the toilet in place on the floor flange (fig. 19) and secure to floor with #14x2-1/2 inch long lag bolts (fig. 20). Install decorative bolt caps by pushing them onto bolt heads (fig. 21).
19. Turn on electrical power and water to toilet. Lift flush handle and fill toilet bowl with water. Wait one hour, then inspect the floor around and under the rear of the toilet for leaks or dampness.
- If no leaks are present, toilet is ready for operation.



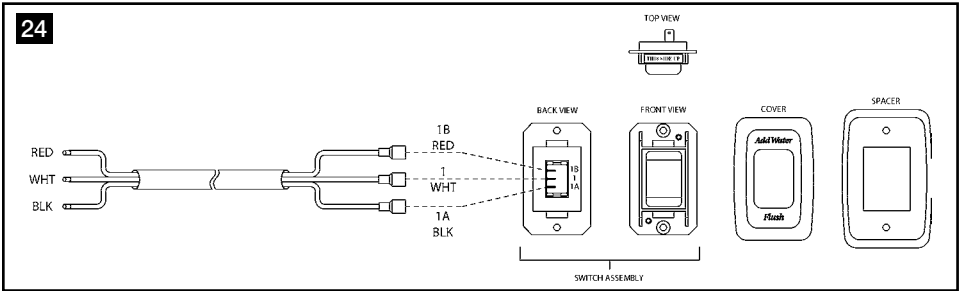
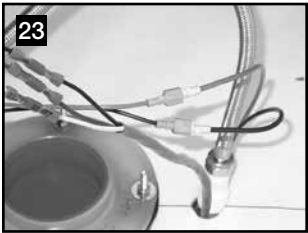
Wiring diagram

22

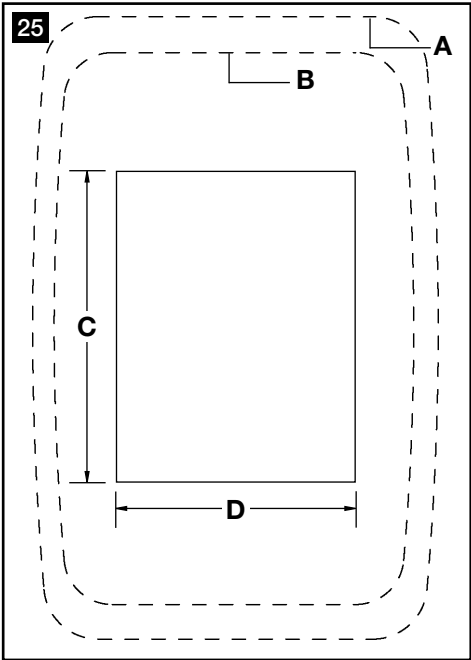


5.2 Wall switch installation – 4400 series toilet

1. Select a location for the switch. 8 feet of cable (2.4 m) is provided. More wire may be required, depending on how far the switch is located from the toilet.
2. Cut an opening 1-1/4 in. wide x 1-5/8 in. high (fig. 25, page 11).
3. If installing the switch in a shallow wall, you may need to use the spacer between the wall and the switch assembly cover to allow space for the wire connectors. If so, route the cable through the spacer before proceeding to the next step.
4. Route the 3-conductor cable through wall cut-out and on to toilet. Cable can be routed through hole with water supply line and power wires (fig. 23). Leave a minimum of 12 inches (305 mm) of cable to allow easy wiring at toilet.
5. Fasten the switch assembly to the wall with the #6x1 in. screws (included), making sure to install with the label “THIS SIDE UP” on top (fig. 24). Otherwise, the “Flush” and “Add Water” functions will be reversed.
6. Snap cover onto switch assembly to complete switch installation on wall.
7. **WITH THE ELECTRICAL POWER OFF**, connect the red, black and white wires from the switch to the red, black and white wires of the Remote Flush Cable from the toilet (fig. 23).



Wall switch template



Ref.	Dimension/Description
A	Spacer outline
B	Cover outline
C	1.625 in. / 41 mm
D	1.25 in. / 32 mm

6

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.

You may also contact or have your local dealer contact the Parts Distributor nearest you for quick response to your replacement parts needs. They carry a complete inventory for the Dometic product line.

Telephone:	1 800-321-9886 330-439-5550	U.S.A. and Canada International
Fax:	330-496-3097 330-439-5567	U.S.A. and Canada International
Web site:	Dometic.com	

