DOMETIC

SANITATION TOILETS

MASTERFLUSH MF7100, MF7200

EN **Macerator Toilet**
Installation and Operating Manual 2

FR **WC dilacérateur**
Instructions de montage
et de service 18

ES **Inodoro triturador**
Instrucciones de montaje y de uso 36

REVISION A Form No. 600347570 09/19 |

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

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1 Notes on using this manual

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

Supplementary information for operating the device.

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 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 INJURY OR DEATH TO PERSONNEL THAT MAY RESULT FROM IMPROPER INSTALLATION, SERVICE OR OPERATION OF THIS PRODUCT.

Caution! Hazard of Flooding
If toilet is connected to ANY through-the-hull fittings, ALWAYS close seacocks when toilet is not in use (even if boat is unattended for a brief period). All passengers MUST be instructed on how to close valves when the toilet is not in use. Failure to do so can result in flooding which can cause loss of property and life.

Caution! Hazard of Flooding

If toilet is connected to ANY through-the-hull fittings, ALL flexible hoses must be of marine sanitation quality and must be secured to ANY fittings (such as those at seacock, vented loop or toilet) with two stainless steel, worm-drive hose band clamps at each connection. Connections MUST be checked frequently for integrity. Failure to comply can result in flooding which can cause loss of property and life.

Caution! Hazard of Flooding

If toilet rim is ever less than 8 in. (20 cm) above the highest possible 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 sea water into the boat. Vented loops must be equipped with integral check valve that permits air into line to prevent siphoning. 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 sea water for flushing at ANY time, a sea 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.

Caution! Hazard of Flooding

Do not connect sea water flush toilet (models 7160, 7260) to an onboard pressurized water system. Failure to comply can result in flooding which can cause loss of property and life.

Caution!

Do not connect sea water flush toilet (models 7160, 7180) to an onboard potable water system. Failure to comply could result in contamination of the potable water supply.

Caution! Hazard of Flooding

Before beginning any work on this product, be sure that all electrical power to the unit has been turned off and that seacocks are in the CLOSED or OFF position. Failure to do so can result in flooding which can cause loss of property and life.

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.

Caution!

Discharge of sewage directly overboard is illegal in some areas. Please check all local laws before operating an overboard discharge sanitation system.

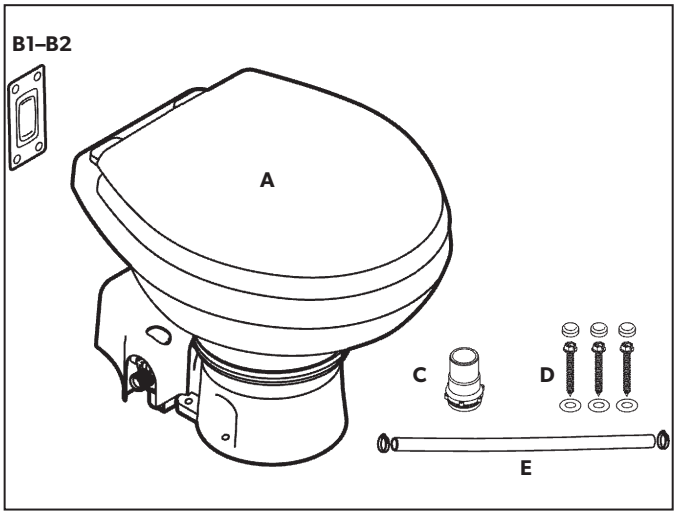
Caution! Hazard of Flooding

If the toilet uses fresh water for flushing and is connected directly or indirectly to a shoreside municipal water system at ANY time, shoreside water connections MUST be disconnected if the boat is unattended (even if boat 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 into the bilge. To prevent this possibility, Dometic recommends using a “full” tank shut-down relay. The “full” signal from the holding tank can be generated by an optional Dometic DTM01C tank monitor or DTM04 four-level tank monitor system.

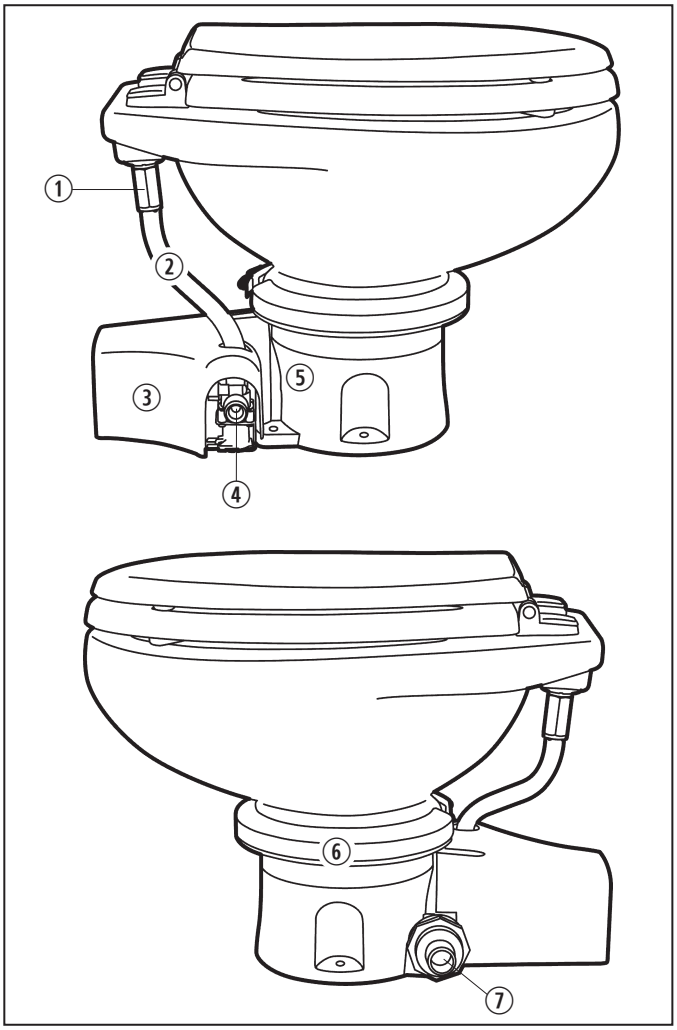
3 Components



1

Carton contents (fig. 1)

Ref.	Description
A	Macerator toilet
B1	DFS-2F flush switch (standard - freshwater flush toilet)
B2	DFS-1F flush switch (standard - sea water flush toilet)
C	1.5 in. (38 mm) discharge fitting
D	Floor mounting hardware kit
E	Water supply hose kit
NS	Parts list, installation and operation instructions, quick-start guide



2

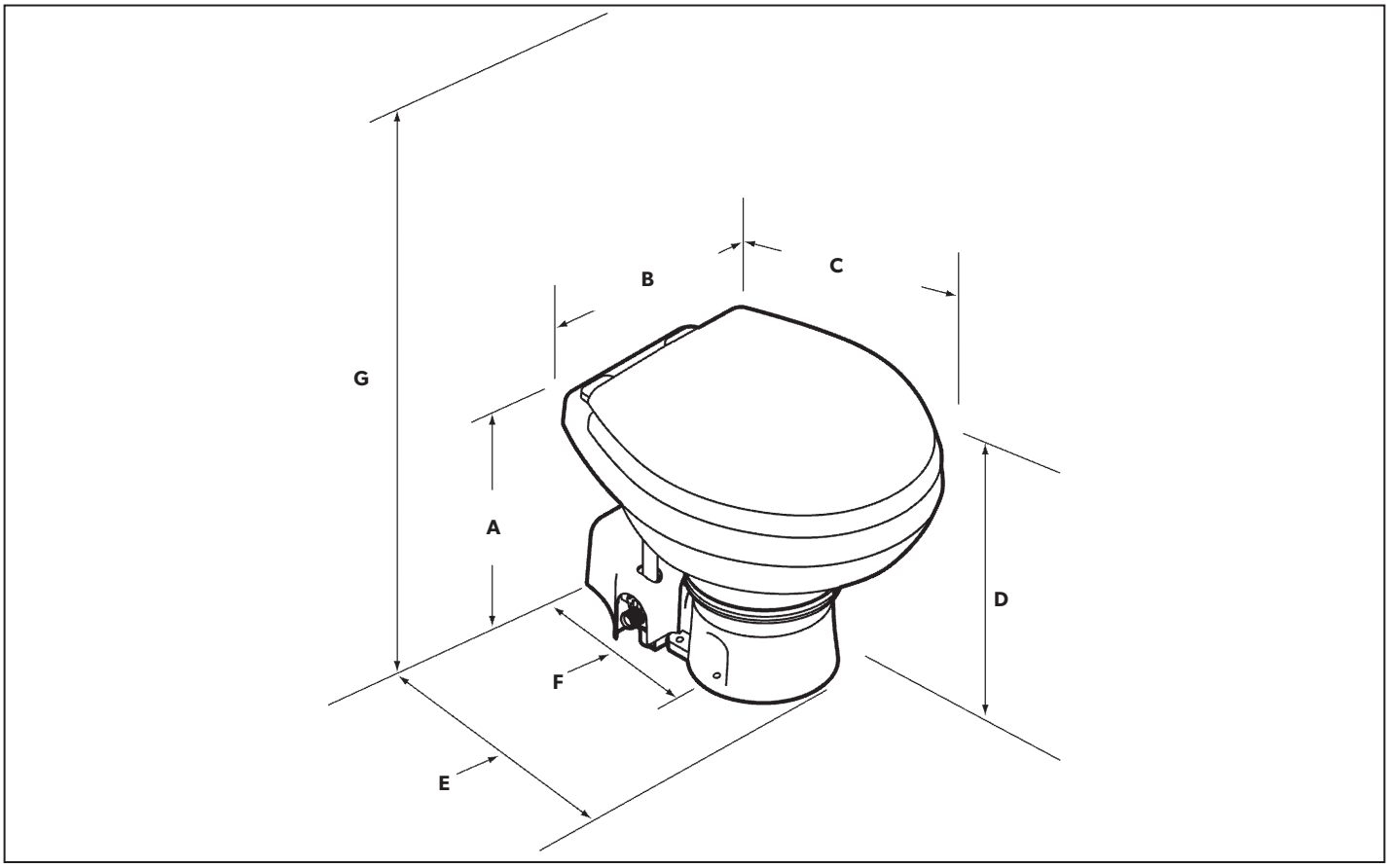
Toilet components (fig. 2)

Ref.	Description
1	Rim flush check valve (freshwater toilet) or adapter (sea water model)
2	Water supply hose
3	Macerator pump (under plastic cover)
4	Electric water valve
5	Product ID label location
6	Stainless steel compression band
7	Discharge fitting

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

4 Specifications

4.1 Dimensions



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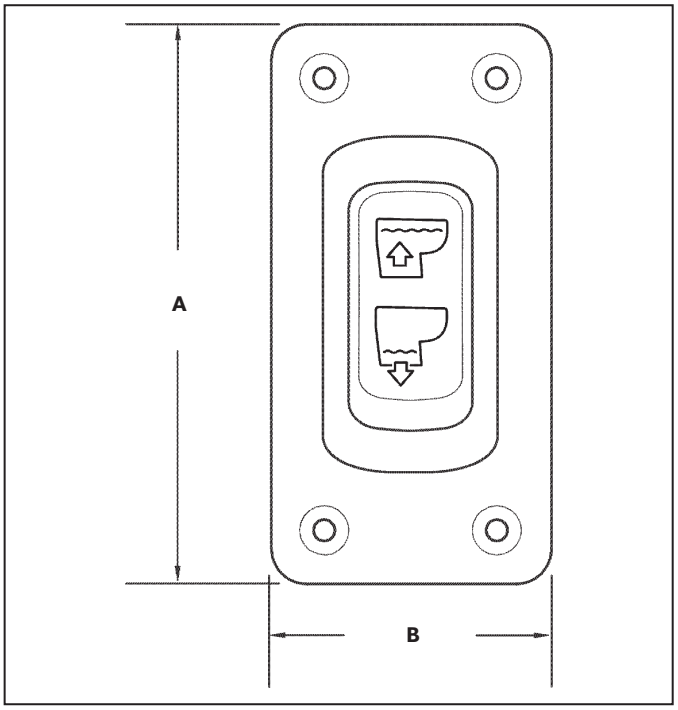
Toilet models 7120, 7160 (standard bowl) (fig. 3)

Ref.	Dimension
A	14.75 in. / 375 mm
B	15 in. / 381 mm
C	19 in. / 483 mm
D	13.75 in. / 349 mm - seat height
E	13.75 in. / 349 mm
F	10 in. / 254 mm
G	28.75 in. / 730 mm - seat lid up

Toilet models 7220, 7260 (compact marine bowl) (fig. 3)

Ref.	Dimension
A	13.25 in. / 337 mm
B	14.5 in. / 368 mm
C	18.75 in. / 476 mm
D	12.25 in. / 311 mm - seat height
E	13.75 in. / 349 mm
F	10 in. / 254 mm
G	26.25 in. / 667 mm - seat lid up

All dimensions may vary 0.375 in. (10 mm)



4

Dometic flush switch panel (fig. 4)

Ref.	Dimension
A	3.25 in. / 83 mm
B	1.625 in. / 41 mm

4.2 Materials

- **Toilet:** vitreous ceramic
- **Toilet base:** polypropylene
- **Dometic flush switch panel:** polystyrene (DFS-1F or DFS-2F); or powder-coated aluminum (DFST)

4.3 Minimum System Requirements

Electrical	Power draw	20 amps/12 V DC; 10 amps/24 V DC
	Circuit breaker	25 amps/12 V DC; 15 amps/24 V DC
	Wiring	12 ga. (up to 25 ft./7.6 m total circuit) Consult ABYC guidelines for additional information.
Water Supply	Fitting size Supply hose ID	0.5 in. NPT – fresh water flush toilet 0.75 in. ID – sea water flush toilet
	Flow rate	2.0 gpm/7.6 lpm minimum – fresh water flush
Discharge	Inside diameter	1.5 in./38 mm or 1 in./25 mm
	Horizontal run*	40 ft./12.2 m maximum
	Vertical run*	4 ft./1.2 m maximum

*****Horizontal and vertical run distances are not cumulative. Check for adequate discharge flow if installation nears one of these limits.

Specifications are subject to change without notice.

5 Toilet Operation

⚠ CAUTION

Do not operate toilet without water supply turned on. Damage to internal components may occur.

5.1 Freshwater Flush (with DFS-2F switch)

5

5.1.1 Toilet system start-up

1. Turn on fresh water supply to toilet.
2. Press "Flush" switch (2) and hold for at least 10 seconds.
3. Toss several sheets of toilet paper into bowl and repeat cycle. The bowl should completely clear.

5.1.2 Normal flushing

ADDING WATER TO TOILET BOWL

Press "Add Water" switch (1) until desired water level is achieved. (Do not press "Add Water" switch too long or overflow may occur.) More water is usually added only when flushing solids.

FLUSHING TOILET

Press "Flush" switch (2) down and hold until waste drains from toilet bowl (about 10-20 seconds). This switch activates a macerator pump that siphons water and waste from the bowl, macerates, and propels the effluent to the discharge line/holding tank.

To use less water for liquid-only flushes, press "Flush" switch for shorter period of time.

5.2 Freshwater Flush (toilet with DFST switch)

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5.2.1 Toilet system start-up

1. Turn on fresh water supply to toilet.
2. Press "Flush" switch (2) and hold for at least 10 seconds.
3. Toss several sheets of toilet paper into bowl and repeat cycle. The bowl should completely clear.

5.2.2 Normal toilet operation

ADDING WATER TO TOILET BOWL

Press "Add Water" switch (1) and hold until desired water level is achieved. (Do not press "Add Water" switch too long or overflow may occur.)

FLUSHING TOILET

Press "Flush" switch (2) down and hold until waste drains from toilet bowl (about 10-20 seconds). This switch activates a macerator pump that siphons water and waste from the bowl, macerates, and propels the effluent to the discharge line/holding tank. To use less water for liquid-only flushes, press "Flush" switch for shorter period of time.

"DRY BOWL" OPERATION

During periods of rough travel, water in a toilet bowl can splash out and into the bathroom area. To avoid this situation, press "Dry Bowl" switch (3) to drain water completely from toilet bowl. Water is not added to bowl during or after pressing the "Dry Bowl" switch.

Caution – Do Not Flush Waste with "Dry Bowl" Switch!
To maintain proper cleanliness and operation of the toilet and macerator pump, water should be used with every flush.

Caution – Do Not Flush Foreign Objects!
Flush only water, bodily wastes and rapid-dissolving toilet tissue. Do not flush wet wipes, sanitary napkins, condoms, diapers, paper cups, cotton swabs, food, hair or liquids such as oils or solvents as clogging or damage to the toilet or toilet system may occur.

Make sure all guests understand toilet operation before use.

5.3 Toilet operation when connected to "full tank" shut-down relay and tank monitor system

When a Dometic macerator toilet system uses a "full tank" shut-down relay, electrical power to the toilet is shut off when the holding tank level reaches "full". To restore electrical power to the toilet for flushing, holding tank contents must be emptied or discharged until the "full" tank indicator is not activated.

5.4 Sea Water Flush

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5.4.1 Toilet system start-up (toilet with DFS-1F switch)

1. Open sea water inlet and toilet discharge outlet seacocks.
2. Press "Flush" switch (1) and hold for at least 10 seconds.
3. Toss several sheets of toilet paper into bowl and repeat cycle. The bowl should completely clear.

5.4.2 Normal toilet operation

FLUSHING TOILET

Press "Flush" switch (1) down and hold until waste drains from toilet bowl (about 10-20 seconds). This switch activates a macerator pump that siphons water and waste from the bowl, macerates, and propels the effluent to the discharge line.

To use less water for liquid-only flushes, press "Flush" switch for shorter period of time.

If toilet bowl does not completely flush and fills up with raw water during flush, partially close inlet valve until bowl clears and completely discharges effluent. Then, with inlet and discharge valves completely open, flush toilet for a few seconds to clear toilet and discharge system.

Caution! Hazard of Flooding
If toilet is connected to ANY through-the-hull fittings, ALWAYS close seacocks when toilet is not in use (even if boat is unattended for a brief period). All passengers MUST be instructed on how to close valves when the toilet is not in use. Failure to do so can result in flooding which can cause loss of property and life.

Caution – Do Not Flush Foreign Objects!
Flush only water, bodily wastes and rapid-dissolving toilet tissue. Do not flush wet wipes, sanitary napkins, condoms, diapers, paper cups, cotton swabs, food, hair or liquids such as oils or solvents as clogging or damage to the toilet or toilet system may occur.

Make sure all guests understand toilet operation before use.

6 Maintenance and Winterizing

6.1 Cleaning the toilet

To maintain the toilet's original, lustrous appearance, use Dometic® Toilet Bowl Cleaner or other non-abrasive bathroom and toilet bowl cleaners. Please follow label directions.

Caution
To avoid damaging internal seals, do not clean toilet with abrasive cleaners, caustic chemicals, or lubricants and cleaners that contain alcohols or petroleum distillates.

6.2 Routine maintenance

MONTHLY

1. Inspect toilet, plumbing, and plumbing connections, wires, and wire connections.
2. Open and close all plumbing valves, including seacocks.
3. Check in-line water filters and vented loops for blockage.

YEARLY

Check water valve filter. Also check water valve filter if water flow into toilet becomes insufficient.

6.3 During extended periods of non-use

The macerator toilet and sanitation hoses should be protected if toilet will not be needed for an extended period of time (more than two weeks, especially in hot weather).

1. Flush toilet and add 4 oz. (118 ml) of liquid biodegradable laundry detergent (should NOT contain bleach or environmentally harmful substances).

If using raw water for flushing, shut off power to raw water pump and add fresh water directly into the bowl during the flush cycle.

2. Flush toilet at least five times.
3. Turn off water supply to toilet.
4. Flush the toilet without water very briefly to evacuate all water. (This procedure will minimize any remaining water in the macerator pump.)

Caution
During water evacuation process, do not operate sea water pump very long without water. Pump impeller may become damaged.

5. Turn off power to the toilet.
6. After extended periods of non-use, toilet and pump may dry. For easier re-start of toilet system, add one quart of water to bowl and let it stand for a few minutes before use.

6.4 Winterizing

At the end of each season, the Dometic macerator toilet should be winterized for storage by using potable water-safe antifreeze (if boat or vehicle will be exposed to freezing temperatures).

If system will be subjected to freezing temperatures, please follow procedures in section 6.3 During extended periods of non-use, and then winterize system as described here.

Use nontoxic antifreeze designated for potable water systems. (See boat or vehicle owner's manual.)

Caution

Never use automotive-type antifreeze in freshwater systems.

PRESSURIZED FRESH WATER SYSTEM

1. Drain potable water tank and empty holding tank.
2. Add freshwater antifreeze to potable water tank.
3. Flush potable water antifreeze and water mixture through toilet(s) and into entire system, including the waste holding tank, diverter valve connections, discharge pumps, etc. Turn off power to toilet.

Each installation is different, so amounts may vary. User discretion is required to assure adequate protection.

SEA WATER SYSTEM

Parts required:

- Hose that fits raw water pump, about 3 ft. (1 m) long
- one container

1. Close intake and discharge seacocks. See Hazard of Flooding risks in this manual.
2. Turn off power to toilet.
3. Disconnect and drain intake hose and in-line filters.
4. Connect hose to raw water pump intake.
5. Place hose connected to pump intake into bucket with antifreeze in it.
6. Turn on power to toilet and flush until antifreeze is removed from toilet.
7. Disconnect power to toilet and reconnect all intake and drain hoses.

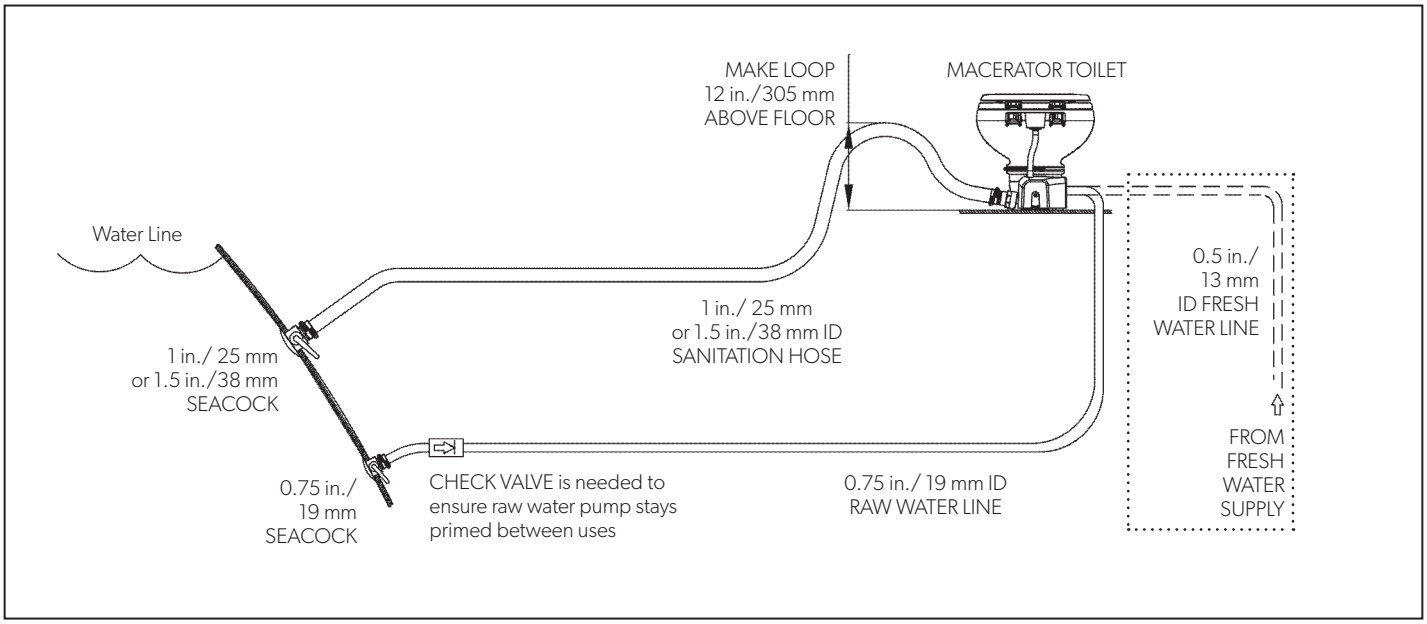
7 Troubleshooting

Problem	Possible Cause	Service Instruction
1. Flush function works, but water in bowl empties slowly or not at all.	a. Discharge piping is pinched or kinked. b. Discharge piping is too high. (Remember, all upward vertical loops and should not exceed a total of 4 feet (1.2 m) in height.) c. The macerator pump or discharge piping is blocked.	a. Check discharge piping. b. Reroute discharge piping. c. Close seacocks and clear blockage.
2. Macerator pump makes unusually loud noise or continually trips breaker.	a. Foreign material in pump chamber.	a. Close seacocks and clear foreign material.
3. Flush cycle is not activated after pushing on flush switch.	a. Holding tank is full and signal from tank has shut down electrical power to toilet. b. Electrical power to toilet is shut off or disrupted. c. Flush switch is malfunctioning.	a. Empty holding tank. b. Check wiring and circuit breakers (or fuses). c. Replace flush switch.
4. Insufficient or no water enters the bowl.	a. Water supply line is pinched or kinked. b. Screen in water valve is blocked. c. Intake water filters are blocked (in sea water system). d. Water valve is malfunctioning.	a. Check water supply line. b. Clear blockage at water valve. c. Clear water filters. d. Replace water valve.

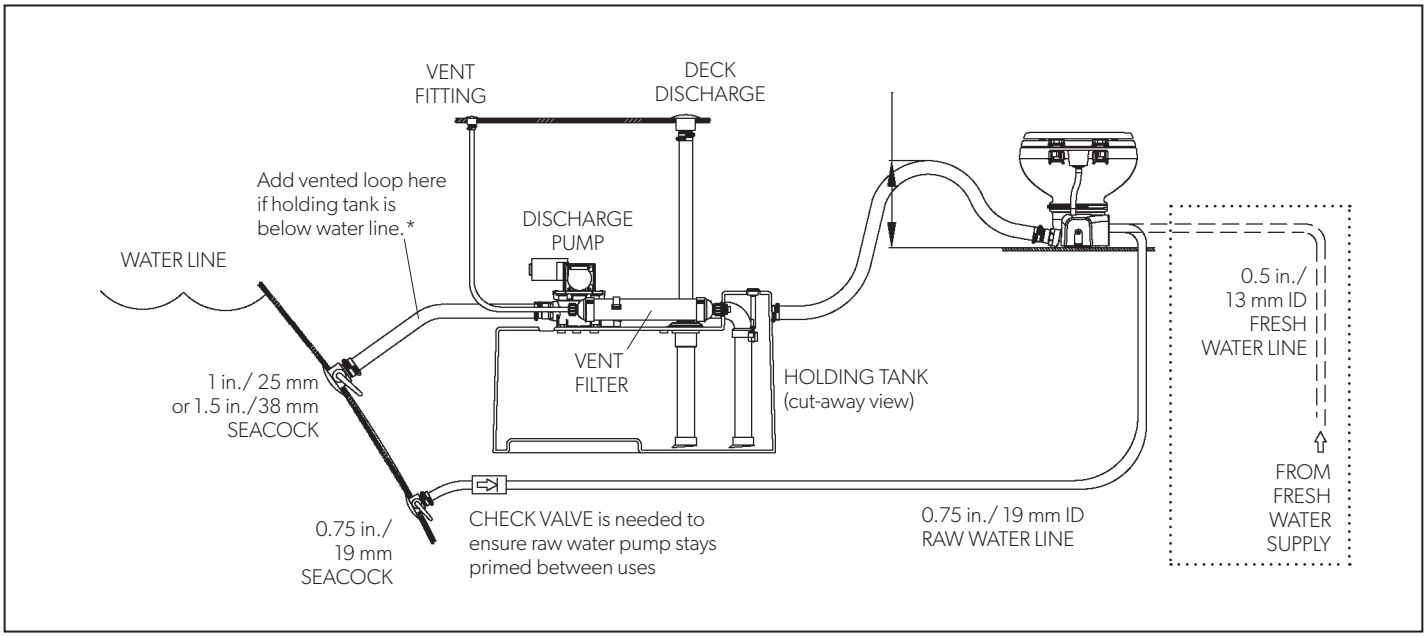
8 Installation

Determine whether the water supply to the toilet will be fresh water or sea (sea) water, above or below the vessel's water line, and then follow the appropriate instructions for the installation.

8.1 Above water line system layouts



8 Toilet with direct overboard discharge

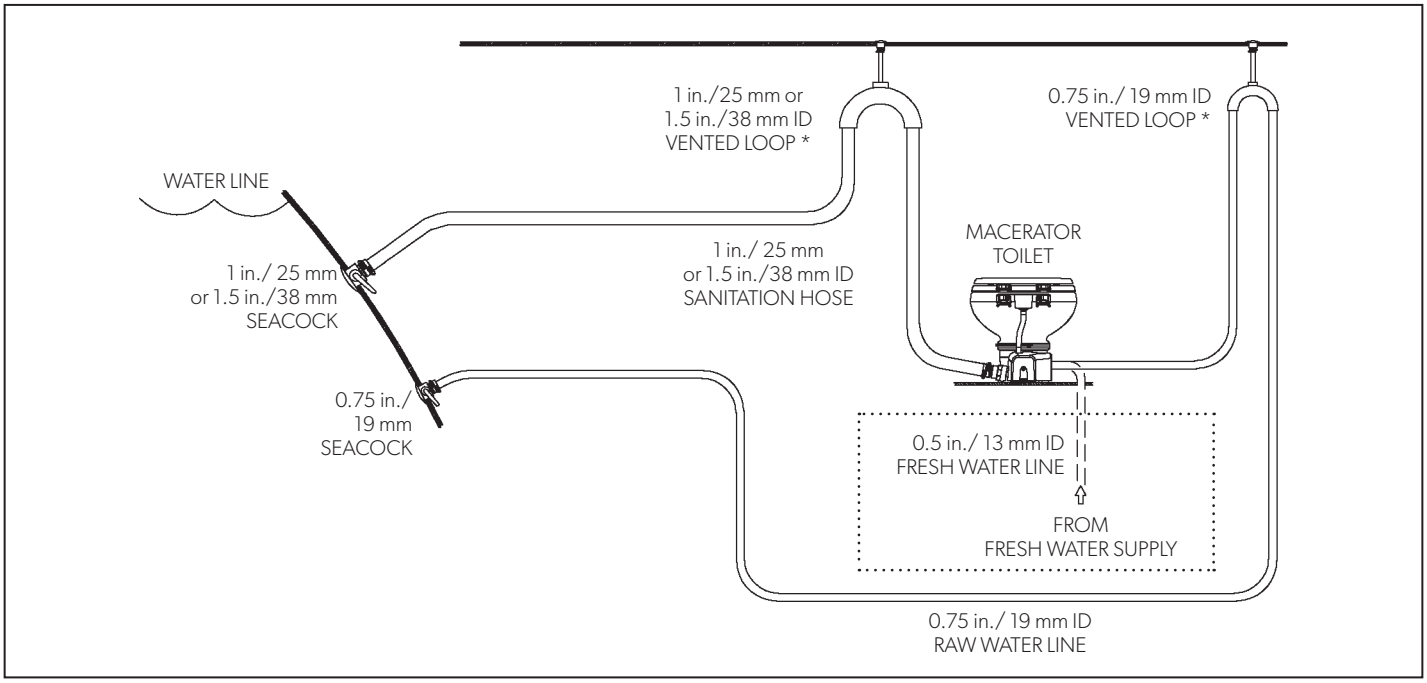


9 Toilet with holding tank discharge

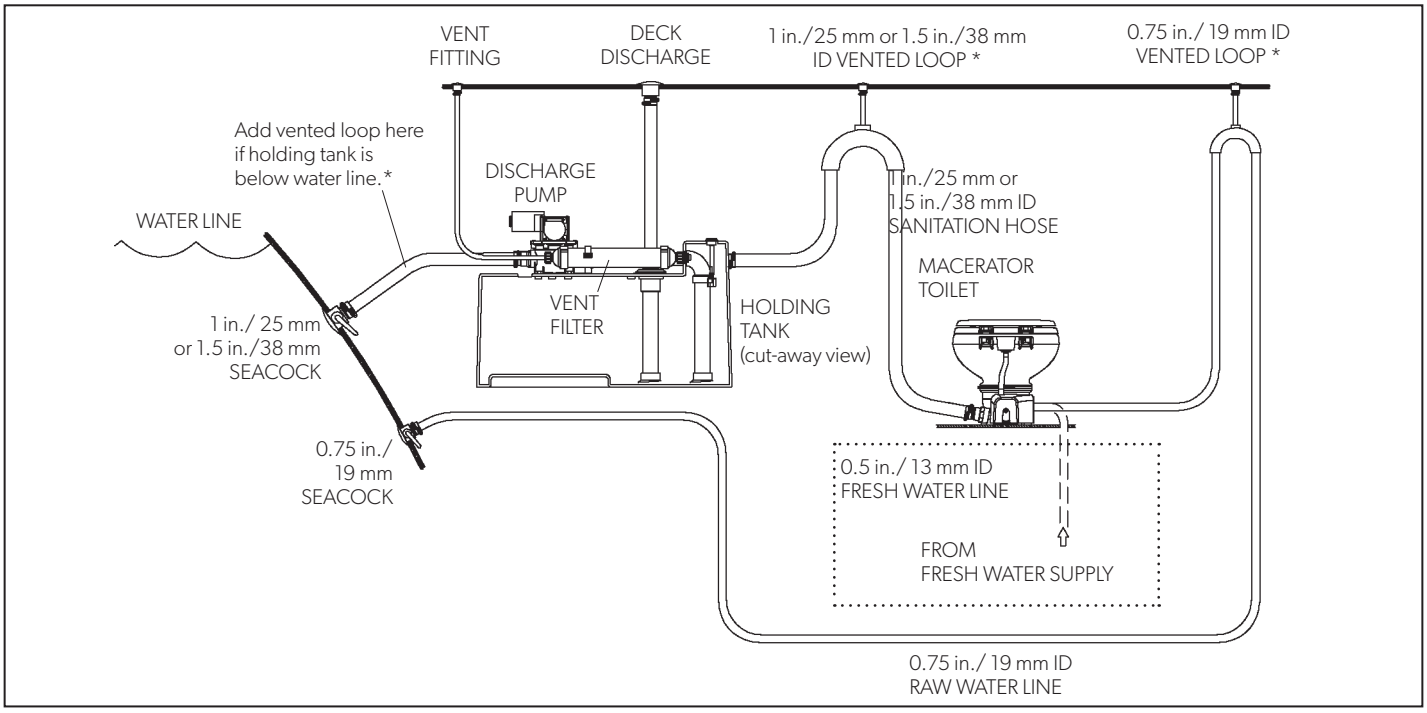
***Caution! Hazard of Flooding**

All vented loops should be installed a minimum of 8 in./20 cm above water line at full heel.

8.2 Below water line system layouts



10 Toilet with direct overboard discharge



11 Toilet with holding tank discharge

***Caution! Hazard of Flooding**

All vented loops should be installed a minimum of 8 in./20 cm above water line at full heel.

8.3 Inlet plumbing requirements

For seawater/sea water flush models:

- **Seacock and inlet water line** (not supplied with toilet):
  - 3/4 in. (19 mm) full-flow seacock and 3/4 in. (19 mm) ID flexible hose. Follow seacock manufacturer's installation instructions.
  - Make sure inlet seacock is below sea water line at all times, during all conditions of full heel.
  - Make sure all inlet hose connections have no sharp bends or restrictions.
  - Use two stainless steel hose clamps at each connection.
  - Provide hose support every 3 ft. (0.9 m) along inlet hose run to limit movement.
  - Keep hose runs as short as possible. Eliminate sags or low spots that may hinder flow.
- **Water inlet strainer** (not supplied with toilet)
  - 100-mesh strainer is recommended between inlet seacock and seawater flush toilet.
- **Inlet check valve for above-waterline installations** (not supplied with toilet):
  - A check valve should be installed in inlet supply line to assure toilet's seawater pump stays primed between flushes.
  - Check valve should be located as close as possible to the inlet seacock (fig. 8, 9).
- **Vented loop** (not supplied with toilet):
  - If the toilet rim will ever be less than 8 in. (20 cm) above the highest possible waterline at any point of heel, trim or load, then a 3/4 in. (19 mm) vented loop must be installed in the inlet hose between the inlet seacock and the toilet (fig. 10, 11).
  - Vented loop must be positioned a minimum of 8 in. (20 cm) above highest possible waterline during all conditions of heel, trim, or load.

Be sure to install a vented loop that will not prevent required water flow to toilet when toilet is being flushed. An electric solenoid type is recommended.

rning!

Do not connect sea water flush toilet inlet line to a pressurized freshwater system. This will result in a continuously running freshwater pump, which can possibly overflow the toilet bowl, flood the boat, and cause potential loss of property or life.

Warning!

Do not connect sea water flush toilet inlet line to an onboard potable water system in any way. This can cause contamination of the potable water system. If fresh water is desired, purchase the freshwater-flush version of the toilet, or provide a separate freshwater tank that supplies water only to the toilet.

For freshwater flush models:

- **Inlet water line** (not supplied with toilet):
  - 0.5 in. (13 mm) ID flexible hose with 1/2 in. NPT fitting connects to toilet water valve.
- **Shut-off valve in inlet line** (not supplied with toilet):
  - For toilet cleaning and maintenance.

8.4 Outlet plumbing requirements

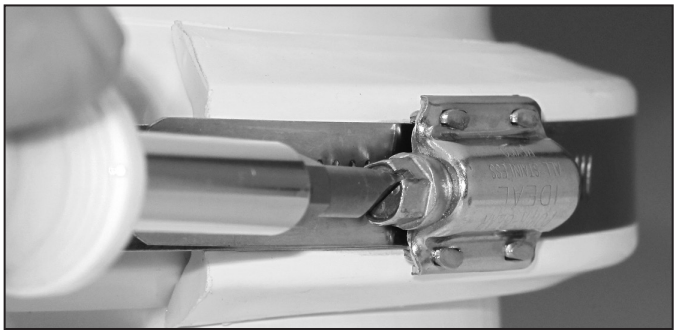
For seawater/sea water flush models:

- Seacock and outlet sanitation hose (not supplied):
  - 1 in. (25 mm) or 1.5 in. (38 mm) full-flow seacock and flexible hose to route waste to a holding tank with discharge pump, or route directly overboard. Follow seacock manufacturer's instructions.
  - Make sure waste outlet seacock is both aft and higher than the water inlet seacock.
  - Outlet plumbing should have no sharp bends or restrictions.
  - Use two stainless steel hose clamps at each connection.
  - Provide support along entire hose run to limit movement and side-loading on connections.
  - Keep hose runs as short as possible. Eliminate sags or low spots that may hinder flow.

- Discharge hose loop near toilet (not supplied with toilet):
  - To retain water in toilet bowl, make a 12 in. (30 cm) high loop in discharge line as near to toilet as possible (fig. 8, 9).
- Vented loop (not supplied with toilet):
  - Refer to toilet system layout figures 9, 10, 11 for recommended locations of discharge vented loops connected to system components that are below the water line or may be less than 8 in. (20 cm) above highest possible water line at full heel.
  - Vented loops must be positioned a minimum of 8 in. (20 cm) above highest possible water line at full heel.

8.5 Toilet and flush switch installation

1. Carefully unpack toilet, water supply hose, discharge fitting and hardware fig. 1).
2. Place toilet in desired location on floor. If necessary, rotate toilet so that macerator pump housing (fig. 2) does not interfere with walls, or so that it will better accommodate the intended plumbing layout. Confirm adequate clearance is available for plumbing connections, and also the seat and lid in raised position. Mark floor where toilet will be installed.
3. **(Optional)** If macerator pump and base must be positioned at an angle so that toilet bowl does not face in correct direction, the upper bowl can be rotated to the proper position:



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   a. Loosen compression band (fig. 12) just enough to slip down past lower plastic clamp, and remove upper and lower plastic clamps (fig. 13).

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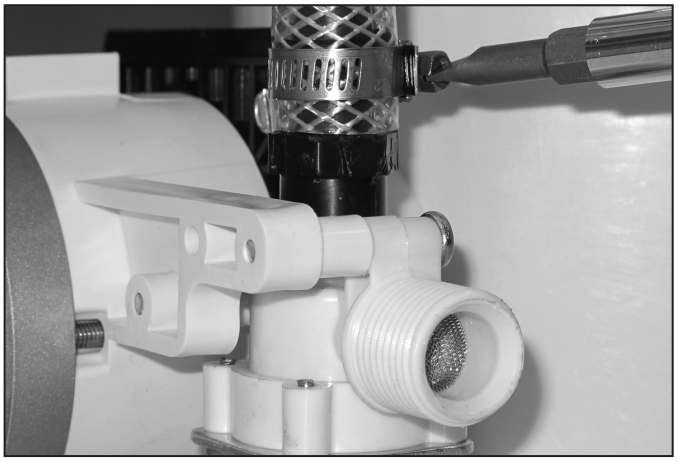
   b. Lift bowl. Make sure notch in black rubber gasket sits around shallow pin on toilet base and remains centered between bowl and base (fig. 14). Rotate bowl to desired position, then set it down on gasket.
   c. Re-position plastic clamps and compression band between upper bowl and base. Join clamps together at front of toilet bowl (there will be a space between the clamps behind the bowl). With compression band screw positioned on a clamp (not in gap between clamps) (fig. 12), tighten compression band to 65 in.-lbs.
4. Connect water supply hose between check valve or adapter (fig. 2) and water valve (freshwater flush model) or water pump (sea water flush model) on base.
   a. Cut supply hose to length that will not kink when connected.
   b. Remove plastic cover (fig. 2) from pump.



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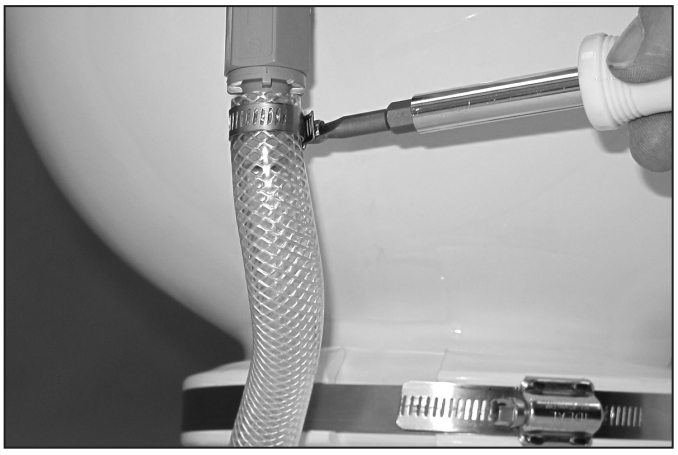
c. With hose clamp, attach hose to water valve (freshwater model) or pump (sea water model) barbed fitting (fig. 15).

d. Place loose end of supply hose up through hole of plastic cover. Lower and fit cover to macerator pump.



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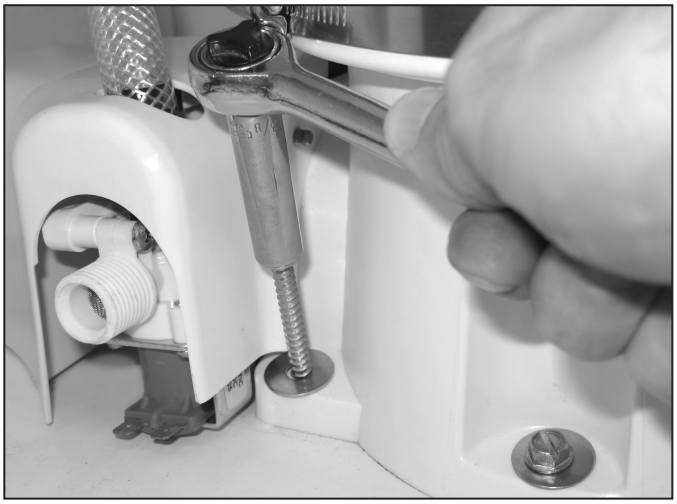
e. Connect water supply hose to rim flush check valve with hose clamp (fig. 16).

5. Plan electrical, water supply and discharge plumbing according to appropriate toilet system layout (refer to toilet system layout figures on pages 11 – 12). Create access holes for plumbing and electrical supplies to toilet.



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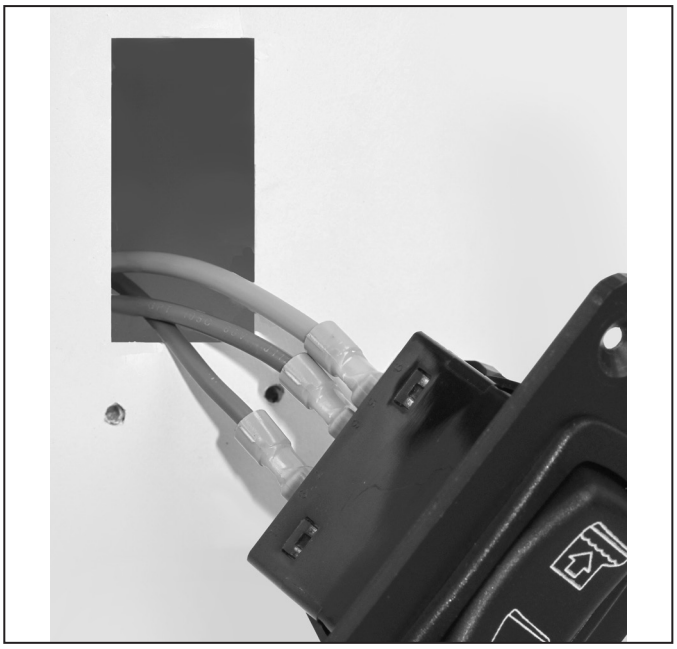
6. Place toilet in final location, and fasten it to floor with hex head fasteners and washers at sides and rear of base (fig. 17).

7. Plan flush switch location so that electrical connections and wires cannot get wet.



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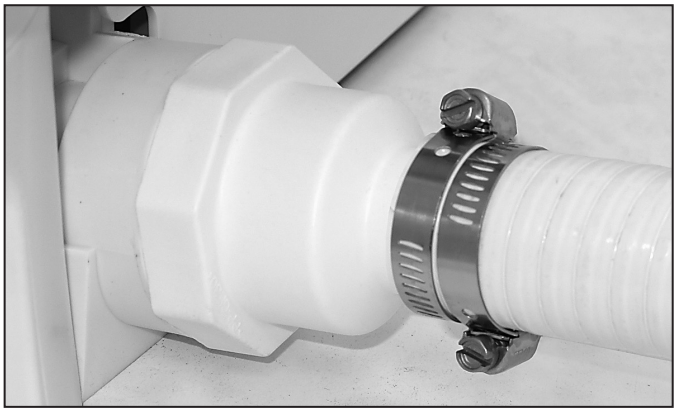
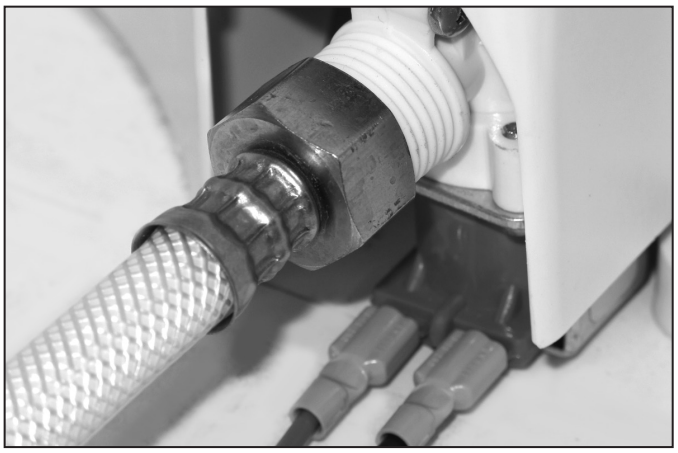
8. Use switch template (packed separately) to mark location of fasteners and switch access hole. Cut out access hole (fig. 18).

Refer to wiring diagram on reverse side of toilet parts list.



19



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9. WITH ELECTRICAL POWER OFF, route stranded copper positive wire (gauge per ABYC standards) from circuit breaker or fuse to switch access hole.* Route red wire from toilet's macerator pump to switch access hole. Route wire from switch access hole to electric water valve at bottom of toilet (freshwater model). Connect wires according to diagram with appropriate spade connectors (fig. 18, fig. 20).

10. Attach flush switch to wall with screws provided.

11. Connect ground wires from macerator pump and electric water valve (freshwater models only) to vessel's electrical ground wiring according to the wiring diagram. Provide extra wire at toilet to easily remove from floor in case of service.

12. Route vessel's water supply and discharge plumbing to toilet (refer to toilet system layout figures on pages 11 – 12).

13. Securely connect all discharge hoses with two stainless steel hose clamps with screws positioned 180° opposite each other (fig. 19). Lubricate fittings and hoses with silicone grease to make hose connection easier. For freshwater toilet, connect water supply with 0.5 in. NPT fitting (fig. 20).

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14. For sea water flush model, open water supply and discharge seacocks. For freshwater model, turn on water supply. Check for water leaks at all connections. Turn on electrical power to toilet, press "Flush" switch and check for leaks. If leak occurs, tighten connection.

15. Attach plastic covers to floor mounting fasteners.

* If toilet system includes any DTM series tank monitor system, refer to Section 8.6.

⚠ Caution

Do not operate toilet without water supply turned on. Damage to internal components may occur.

8.6 Toilet system with tank monitor and shut-down relay installation

Dometic MasterFlush toilets operate with Dometic DTM tank monitor systems (available separately) to shut down electrical power to the toilet when the holding tank is full. This prevents overfilling the holding tank. Refer to toilet system wiring diagram on parts list.

1. Route input power wire from "full tank" relay of DTM panel to toilet's flush switch location.
2. Follow flush switch installation instructions beginning at Section 8.5, step 10.

9 Warranty and Product Liability

LIMITED WARRANTY

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
1120 NORTH MAIN STREET
ELKHART, INDIANA, USA 46514
1-800-544-4881 OPT 3