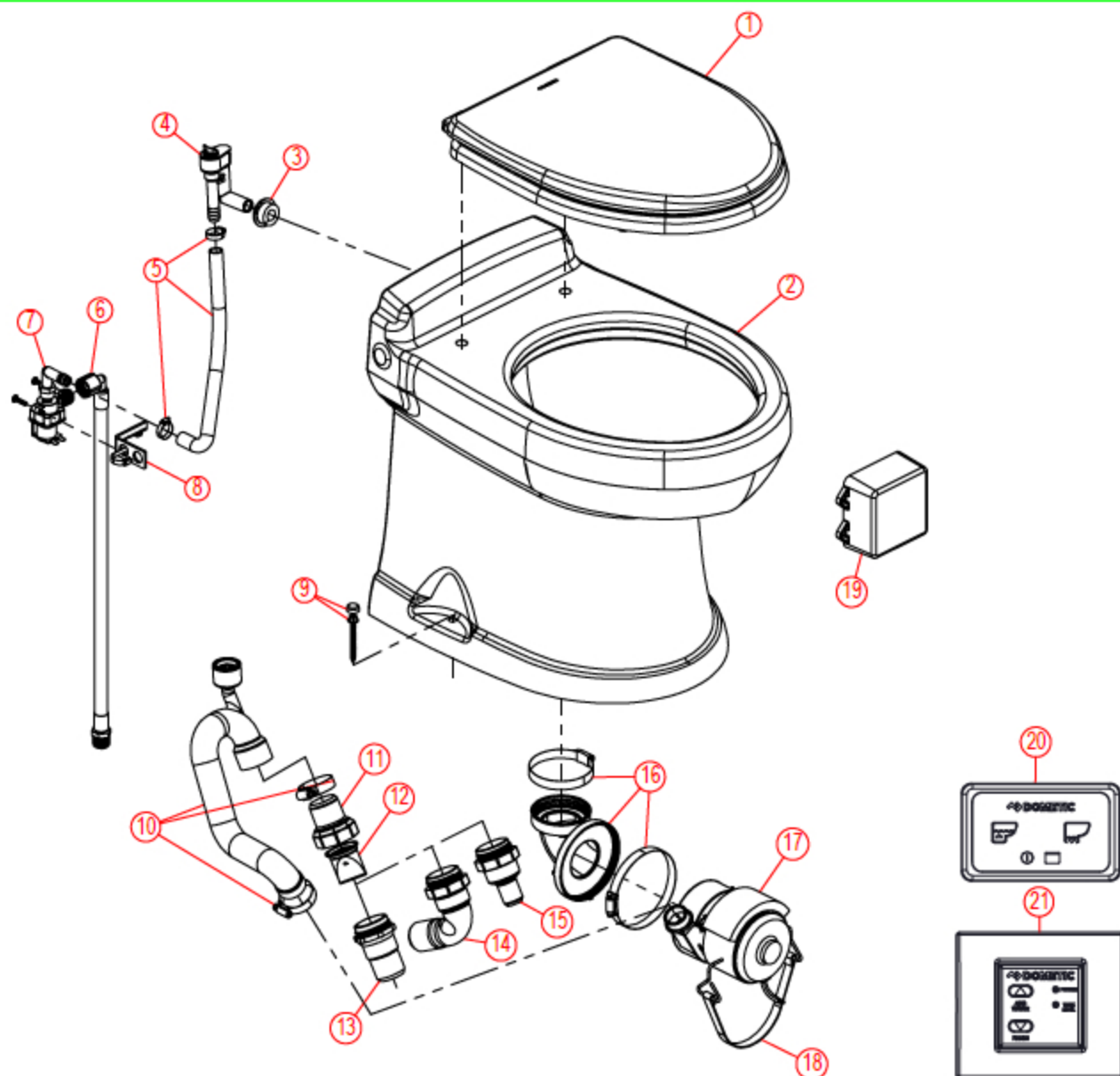


# PARTS LIST: 8700 TALL SERIES w/ FLUSH SWITCH VERSION



ITEM	PART NUMBER & DESCRIPTION
1	385311005 - SEAT/COVER WOOD - WHITE 385311006 - SEAT/COVER WOOD - BONE 385311597 - SEAT/COVER WOOD - EBONY
2	385312023 - 8700 BOTTOM DISCHARGE BOWL KIT-WHITE 385312024 - 8700 BOTTOM DISCHARGE BOWL KIT-BONE 385312025 - 8700 BOTTOM DISCHARGE BOWL KIT-EBONY
3	385311164 - 1/2" SEALING GROMMET
4	385316906 - VACUUM BREAKER KIT **Includes Item #6.
5	385345377 - BOWL WATER SUPPLY HOSE **Includes Hose Clamps.
6	385311547 - WATER SUPPLY HOSE REPLACEMENT
7	385311545 - WATER VALVE KIT - 12VDC 385311546 - WATER VALVE KIT - 24VDC
8	385311705 - WATER VALVE MOUNTING BREAKER KIT
9	385311022 - BOWL MOUNTING HARDWARE
10	385311778 - DISCHARGE TUBE KIT **Includes Anti-Siphon Valve
11	385880070 - DISCHARGE TUBE VALVE ADAPTER
12	385311620 - 1-1/2" CHECK VALVE
13	385311315 - 1-1/2" VALVE ADAPTER
14	385880071 - 1-1/2" VALVE ADAPTER ELBOW
15	385880072 - 1" VALVE ADAPTER
16	385880067 - BOWL OUTLET ELBOW
17	385880068 - MOTOR/MACERATOR ASSY - 12VDC 385880069 - MOTOR/MACERATOR ASSY - 24VDC
18	385311779 - MACERATOR PUMP MOUNTING STRAP
19	385880085 - CONTROL MODULE 12/24VDC (DBL)
20	313600021 - DOMETIC TOUCHPAD FLUSH SWITCH - WHITE 313600022 - DOMETIC TOUCHPAD FLUSH SWITCH - BLACK
21**	313409010 - DOMETIC FLUSH CONTROL - STD GRAY 313409020 - DOMETIC FLUSH CONTROL - STD WHITE 313409030 - DOMETIC FLUSH CONTROL-PLAYBUS GRAY
NOT SHOWN	385311781 - FLUSH SWITCH WIRE HARNESS-8700 SERIES

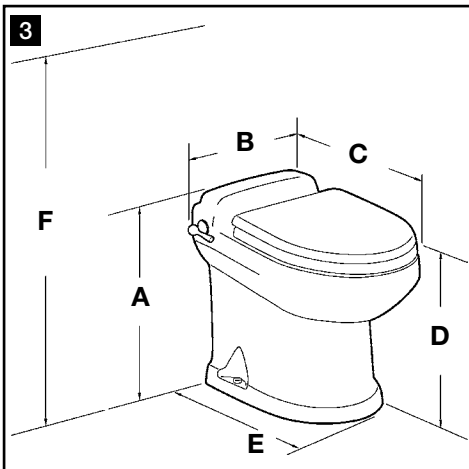
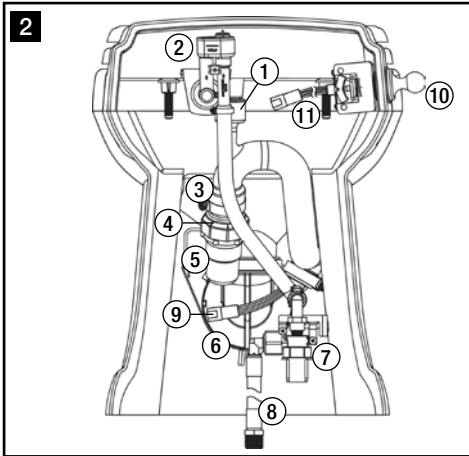
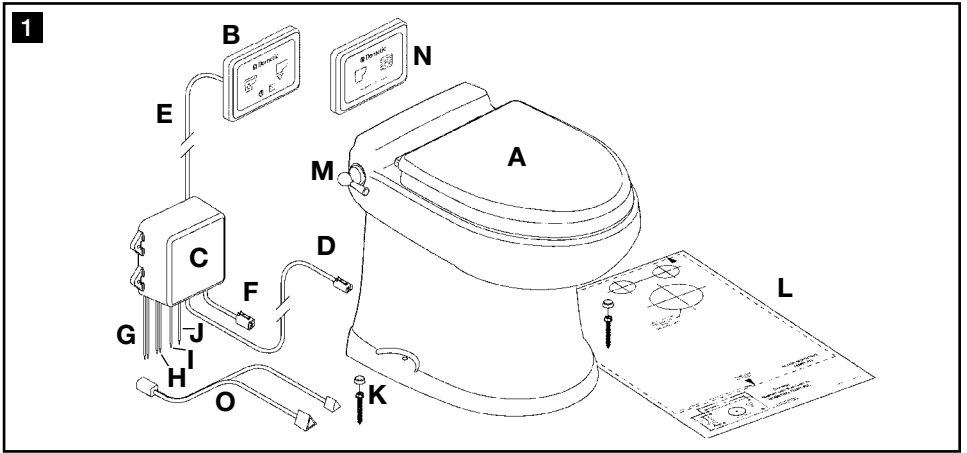
\*\*ITEMS 21:  
ARE OPTIONAL ACCESSORIES SOLD SEPARATELY & ARE NOT  
INCLUDED OR PROVIDED WITH EVERY MODEL.

EN

**Macerator Toilet**  
Operation manual



**8700 Series**  
**MasterFlush®**  
**Toilets**



## Table of contents

EN

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## 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 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 the toilet uses fresh water for flushing and is connected directly or indirectly to a shore-side 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! 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!**

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 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.

## 3 Intended use

The Dometic 8700 series MasterFlush toilet provides an electric-flush toilet that macerates waste and pumps it to a holding tank or other effluent storage/disposal system. Operated by a wall-mounted flush switch or electronic flush handle, the toilet allows the user to add water to the bowl (before using or flushing) and to flush the toilet by pushing a button. The Dometic flush switch panel includes lights to indicate when electric power to the toilet is activated, and when the holding tank (if applicable) is full.

### 3.1 Benefits

**Convenient electronic flush.** Add water or flush with the touch of a button or electronic flush handle.

**Choice of two water consumption settings.** “Normal” flush uses 0.83 gal. (3.1 liters) per flush and adds water to bowl after flush; “Dry Bowl” setting uses only 0.21 gal. (0.79 liters) per flush and does not add water to the bowl.

**Versatile installation.** Powerful macerator pump allows toilet to be located up to 98 ft. (30 m) away and 9.8 ft. (3 m) below holding tank or other discharge line destination.

**“Power on”, “3/4” and “full tank” indicator lights.** Dometic flush switch panel indicates when electrical power to toilet is activated, and when holding tank is 75% and/or 100% full (depending on holding tank level indication system).

**Automatic “full tank” shut-down.** When connected to a holding tank level indication system, the 8700 series toilet control module will shut off electrical power to the toilet when the holding tank is full. This safety feature prevents overfilling the holding tank, which may cause damage to the boat.

## 4 Components

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

Ref.	Description
A	Macerator toilet
B	Dometic DFT flush switch
C	Control module
D	4-wire cable to toilet macerator pump and water valve
E	Cable for Dometic DFT flush switch or DSS status panel (RJ45/ethernet)
F	Cable to toilet's electronic flush handle (for flush handle model)
G	Incoming electrical power wires
H	Power wires to raw water pump (opt.)
I	Wire for "3/4-full tank" signal
J	Wire for "full tank" signal
K	Floor mounting hardware kit
L	Floor mounting template
M	Flush handle (for flush handle model)
N	Dometic DSS status panel (for flush handle model)
O	Cable for flush handle and other mfr. status panel (for flush handle model)

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

Ref.	Description
1	Anti-siphon valve
2	Vacuum breaker
3	Discharge loop outlet
4	Discharge adapter fitting
5	Discharge hose fitting
6	Macerator pump
7	Water valve
8	Water line - 0.5 in. NPT fitting
9	4-pin cable connector
10	Flush handle (on flush handle model only)
11	Flush handle cable connector

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

## 5 Specifications

### 5.1 Materials

**Toilet:** vitreous ceramic

**Macerator pump body:** glass-filled polypropylene

**Control module housing:** ABS

**Dometic DFT switch panel frame:** ABS

**Dometic DFT switch panel:** polycarbonate resin

**Flush handle:** plated brass (on applicable toilet models)

## 5.2 Minimum System Requirements

Electrical	Circuit breaker	20 amps/12 V DC; 15 amps/24 V DC
	Wiring*	12 ga. (up to 20 ft. / 6.1 m from breaker)
Water Supply	Fitting	1/2 in. NPT
	Flow rate	2.5 gpm / 9.5 lpm
	Maximum flow pressure	40 PSI / 276 kPa
Discharge	Inside diameter	1.5 in. / 38 mm or 1 in. / 25 mm
	Horizontal run**	98 ft. / 30 m maximum
	Vertical run**	9.8 ft. / 3 m maximum

\* For RV installation, see Appendix on page 15.

\*\* 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.

## 5.3 Dimensions (fig. 3, page 2)

### Models with wall-mounted flush touchpad (no flush handle)

Ref.	Dimension
A	19 in. / 483 mm
B	14 in. / 356 mm
C	21.5 in. / 546 mm
D	17.5 in. / 445 mm - seat height
E	17 in. / 432 mm
F	33.5 in. / 851 mm - seat lid up

### Models with flush handle

Ref.	Dimension
A	19 in. / 483 mm
B	15.75 in. / 400 mm
C	21.5 in. / 546 mm
D	17.5 in. / 445 mm - seat height
E	17 in. / 432 mm
F	33.5 in. / 851 mm - seat lid up

## 6 Operation

### 6.1 Toilet system start-up

1. Turn on water supply to toilet.
2. Press “Flush” switch (fig. 4 2) once. After nine seconds of water flow, macerator pump will start and run for about six seconds to clear bowl. It will take about five seconds to refill bowl.
3. Toss several sheets of toilet paper into bowl and repeat cycle. The bowl should completely clear.

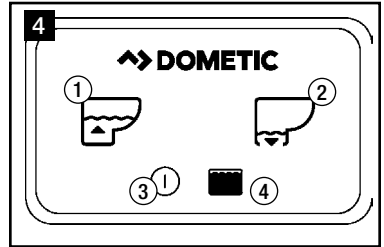
### 6.2.1 Normal toilet operation - Dometic touchpad or other wall switch

#### ADDING WATER TO TOILET BOWL

Press “Add Water” switch (fig. 4 1) until desired water level is achieved. (Water flow will shut off automatically if switch is pressed too long to avoid overflow.) **More water is usually added only when flushing solids.**

#### FLUSHING TOILET

Press “Flush” switch (fig. 4 2), then release it. This activates a powerful macerator pump that siphons water and waste from the bowl, macerates, and propels the effluent through the discharge line to the holding tank.

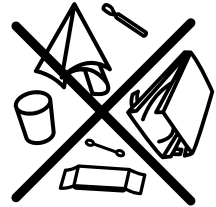


DFT FLUSH SWITCH



#### 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.



#### Note

Make sure all guests understand toilet operation before use.

### 6.2.2 Changing flush modes

Dometic 8700 series MasterFlush toilets offer two flush settings to help manage water consumption:

**Normal flush** – Uses 0.85 gal. (3.2 liters) per flush. Adds water to bowl after every flush.

**Dry Bowl flush** – Uses 0.45 gal. (1.7 liters) per flush. Does not add water to bowl after flush.

To change from Normal to Dry Bowl flush setting, press “Flush” switch for about five seconds. When “Power On” light (fig. 4 3) begins flashing, release “Flush” switch. Flush mode has been changed to Dry Bowl setting. Change mode to Normal flush by following the same procedure.

### 6.2.3 Indicator lights

#### “POWER ON” INDICATOR

On the Dometic DFT flush switch panel, a steady green “Power On” light (fig. 4 3) indicates when electrical power to the toilet is activated. A momentary flashing green light indicates when flush mode is changing.

#### TANK LEVEL INDICATOR

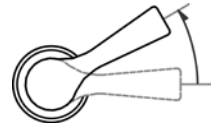
The Dometic DFT flush switch panel includes a bi-color “3/4 Full” (amber) and “Full” (red) Tank Level light (fig. 4 4) to indicate when the holding tank is 75% or 100% full (if connected to a two-level tank monitoring system) and should be pumped out. When the red light is illuminated, electrical power to the toilet automatically shuts off to prevent overflow of the holding tank.



### 6.3.1 Normal toilet operation - Dometic flush handle and status panel

#### ADDING WATER TO TOILET BOWL

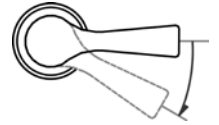
Lift flush handle until desired water level is achieved. (Water flow will shut off automatically if switch is pressed too long to avoid overflow.) More water is usually added only when flushing solids.



ADD WATER TO BOWL

#### FLUSHING TOILET

Press flush handle down, then release it. This activates a powerful macerator pump that siphons water and waste from the bowl, macerates, and propels the effluent through the discharge line to the holding tank.

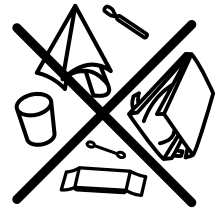


FLUSH



#### 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.



#### Note

Make sure all guests understand toilet operation before use.

### 6.3.2 Changing flush modes

Dometic 8700 series MasterFlush toilets offer two flush settings to help manage water consumption:

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To change from Normal to Dry Bowl flush setting, press flush handle for about five seconds.

When “Power On” light (fig. 5 1) begins flashing, release flush handle.

Flush mode has been changed to Dry Bowl setting. Change mode to Normal flush by following the same procedure.

### 6.3.3 Indicator lights

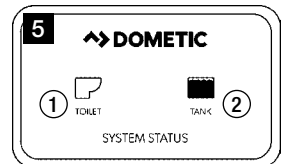
#### “POWER ON” INDICATOR

On the Dometic DSS status panel, a steady green “Power On” light (fig. 5 1) indicates when electrical power to the toilet is activated.

A momentary flashing green light indicates when flush mode is changing.

#### TANK LEVEL INDICATOR

The Dometic DSS status panel includes a bi-color “3/4 Full” (amber) and “Full” (red) Tank Level light (fig. 5 2) to indicate when the holding tank is 75% or 100% full (if connected to a two-level tank monitoring system) and should be pumped out. When the red light is illuminated, electrical power to the toilet automatically shuts off to prevent overflow of the holding tank.



DSS STATUS PANEL

## 7 Maintenance and winterizing

### 7.1 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.

### 7.2 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.

### 7.3 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 in "Normal" mode and add 4 oz. (118 ml) of liquid biodegradable laundry detergent (should NOT contain bleach or environmentally harmful substances). Note: If using sea water for flushing, shut off power to sea water pump and add fresh water by pouring 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. Repeat three times. (This procedure will minimize any remaining water in the macerator pump.)
5. Turn off power to the toilet.

If system will be subjected to freezing temperatures, please follow above procedure, and then winterize system as described below.

### 7.4 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).



#### Note

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.

**RAW WATER SYSTEM**

- Parts required:
- 1.5 in. (38 mm) ID hose, about 3 ft. (1 m) long
  - 0.625 in. (16 mm) ID hose, about 3 ft. (1 m) long
  - two containers

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, discharge hose, and in-line filters.
4. Connect 0.625 in. (16 mm) ID hose to raw water pump intake and 1.5 in. (38 mm) ID hose to toilet discharge.
5. Place one container under hose connected to toilet’s discharge.
6. Place hose connected to intake pump into bucket with antifreeze and pour antifreeze in other container.
7. Turn on power to toilet and flush until antifreeze is removed from toilet.
8. Disconnect power to toilet and reconnect all intake and drain hoses.

**8 Troubleshooting**

Problem	Possible Cause	Service Instruction
1. Flush cycle operates correctly but water in the 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 should not exceed a total of 9.8 feet / 3 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 or handle.	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. d. Circuit board in control module is malfunctioning.	a. Empty holding tank. b. Check wiring and circuit breakers (or fuses). c. Replace flush switch. d. Replace control module.
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 raw 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.
5. Insufficient water flow during bidet operation.	a. Clogged inlet screen at hot or cold connection at toilet/bidet mixer valve. b. Clogged aerator in bidet nozzle inside toilet bowl. c. Toilet/bidet mixer valve assembly is not functioning properly.	a. Disconnect water lines from mixer valve and clean screens. b. Unthread aerator nozzle and clean. c. Replace mixer valve assembly.

## 9 Warranty and product liability

### North America and Rest of the World:

#### Manufacturer's One-Year Limited Warranty

Dometic Corporation, Sanitation Division warrants to the original purchaser only that this product, if used for personal, family or household purposes, is free from defects in material and workmanship for a period of one year from the date of purchase.

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 NEGLIGENCE, ABUSE, ALTERATION OR USE OF UNAUTHORIZED COMPONENTS. ALL IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE, ARE LIMITED TO A PERIOD OF ONE 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 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 or go to <http://www.dometic.com> to locate a dealer near you.

**Europe:****Warranty and Customer Service**

Warranty arrangements are in accordance with EC Directive 44/1999/CE and the normal conditions applicable for the country concerned. For warranty or other service, please contact our Dometic Customer Service department. Any damage due to improper use is not covered by the warranty.

The warranty does not cover any modifications to the product or the use of non-original Dometic parts; the warranty does not apply if the installation and operating instructions are not adhered to and no liability shall be entertained.

**Product Liability**

Product liability of Dometic Group and its subsidiary companies does not include damages which may arise from: faulty operation; improper alterations or intervention in the equipment; adverse effects from the environment which may impact the equipment itself or the direct vicinity of the equipment or persons in the area.

To obtain warranty service, first contact your local dealer from whom you purchased this product or go to <http://www.dometic.com> for a dealer near you.

**10 Customer service**

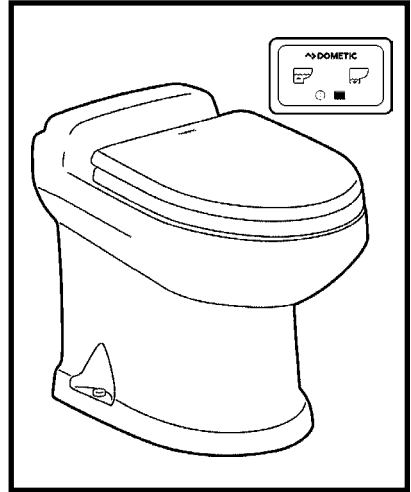
There is a strong, worldwide network to assist in servicing and maintaining your sanitation system. For the Authorized Service Center near you, please call from 8:00 a.m. to 5:00 p.m. (ET) Monday through Friday.

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.

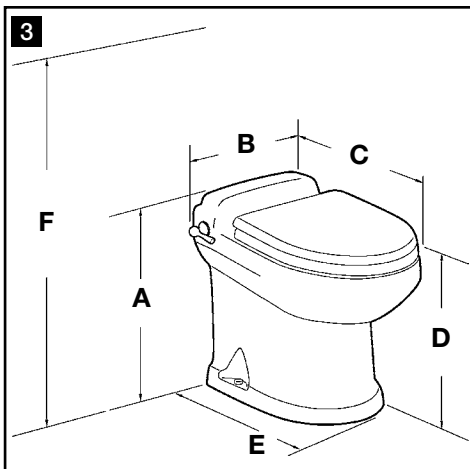
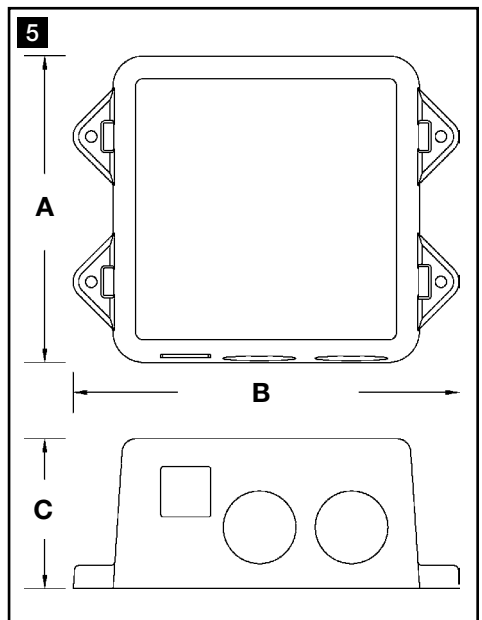
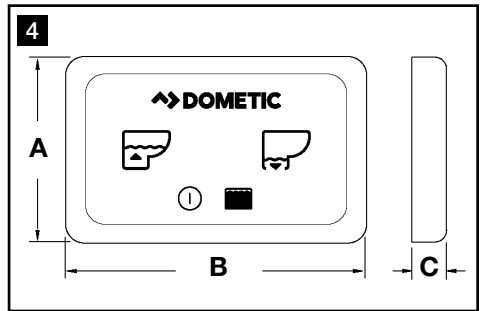
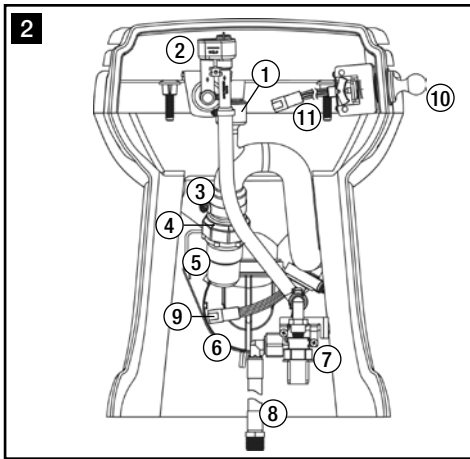
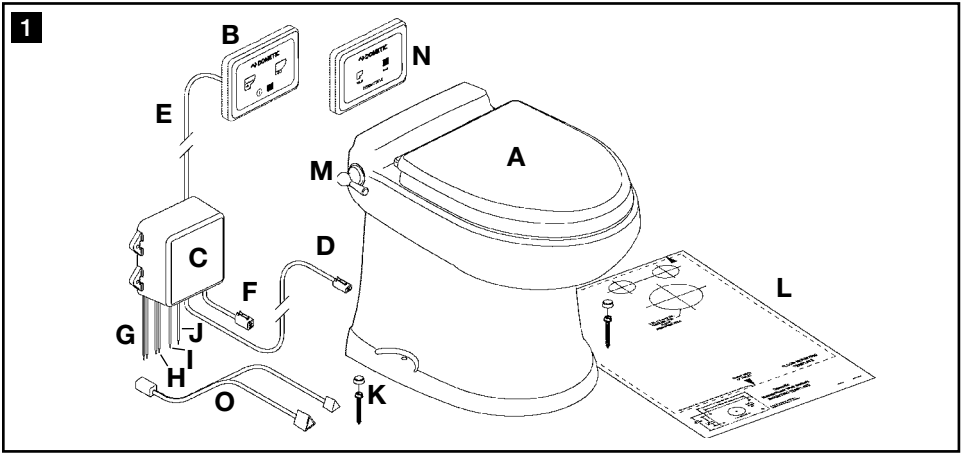
Telephone:	1 800-321-9886 330-439-5550	U.S.A. and Canada International
Fax:	330-496-3097 330-439-5567	U.S.A. and Canada International
Web site:	<a href="http://www.Dometic.com">http://www.Dometic.com</a>	

EN

**Macerator Toilet  
Installation**



**8700 Series  
MasterFlush®  
Toilets  
INSTALLATION**



## Table of contents

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7	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 Warnings – marine and recreation vehicle 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 or RV 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.



## 2.2 Warnings – marine applications

**Caution! Hazard of Flooding**

If the toilet is connected to ANY through-the-hull fittings, properly installed seacocks MUST be installed in all piping connected to through-the-hull fittings. Seacocks MUST be easily accessible to all users of the toilet or secondary valves fitted in hoses where they are easily accessible. All valves MUST be full bore valves and of marine quality. Screw-to-close gate valves are not recommended. 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 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.

**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!**

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 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.

### 3 Components

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

Ref.	Description
A	Macerator toilet
B	Dometic DFT flush switch
C	Control module
D	4-wire cable to toilet macerator pump and water valve
E	Cable for Dometic DFT flush switch or DSS status panel (RJ45/ethernet)
F	Cable to toilet's electronic flush handle (for flush handle model)
G	Incoming electrical power wires
H	Power wires to raw water pump (opt.)
I	Wire for "3/4-full tank" signal
J	Wire for "full tank" signal
K	Floor mounting hardware kit
L	Floor mounting template
M	Flush handle (for flush handle model)
N	Dometic DSS status panel (for flush handle model)
O	Cable for flush handle and other mfr. status panel (for flush handle model)

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

Ref.	Description
1	Anti-siphon valve
2	Vacuum breaker
3	Discharge loop outlet
4	Discharge adapter fitting
5	Discharge hose fitting
6	Macerator pump
7	Water valve
8	Water line - 0.5 in. NPT fitting
9	4-pin cable connector
10	Flush handle (on flush handle model only)
11	Flush handle cable connector

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

## 4 Specifications

### 4.1 Materials

Toilet: vitreous ceramic

Macerator pump body: glass-filled polypropylene

Control module housing: ABS

Dometic DFT switch panel frame: ABS

Dometic DFT switch panel: polycarbonate resin

Flush handle: plated brass (on applicable toilet models)

### 4.2 Minimum System Requirements

Electrical	Circuit breaker	20 amps/12 V DC; 15 amps/24 V DC
	Wiring*	12 ga. (up to 20 ft./6.1 m from breaker)
Water Supply	Fitting	1/2 in. NPT
	Flow rate	2.5 gpm / 9.5 lpm
	Maximum flow pressure	40 PSI / 276 kPa
Discharge	Inside diameter	1.5 in. / 38 mm or 1 in. / 25 mm
	Horizontal run**	98 ft. / 30 m maximum
	Vertical run**	9.8 ft. / 3 m maximum

\* For RV installation, see Appendix on page 15.

\*\* 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.

### 4.3 Dimensions (fig. 3, page 2)

#### Models with wall-mounted flush touchpad (no flush handle)

Ref.	Dimension
A	19 in. / 483 mm
B	14 in. / 356 mm
C	21.5 in. / 546 mm
D	17.5 in. / 445 mm - seat height
E	17 in. / 432 mm
F	33.5 in. / 851 mm - seat lid up

#### Models with flush handle

Ref.	Dimension
A	19 in. / 483 mm
B	15.75 in. / 400 mm
C	21.5 in. / 546 mm
D	17.5 in. / 445 mm - seat height
E	17 in. / 432 mm
F	33.5 in. / 851 mm - seat lid up

#### Dometic flush switch/status panel (fig. 4, page 2)

Ref.	Dimension
A	2 in. / 51 mm
B	3.25 in. / 83 mm
C	0.4375 in. / 11 mm

#### Control module (fig. 5, page 2)

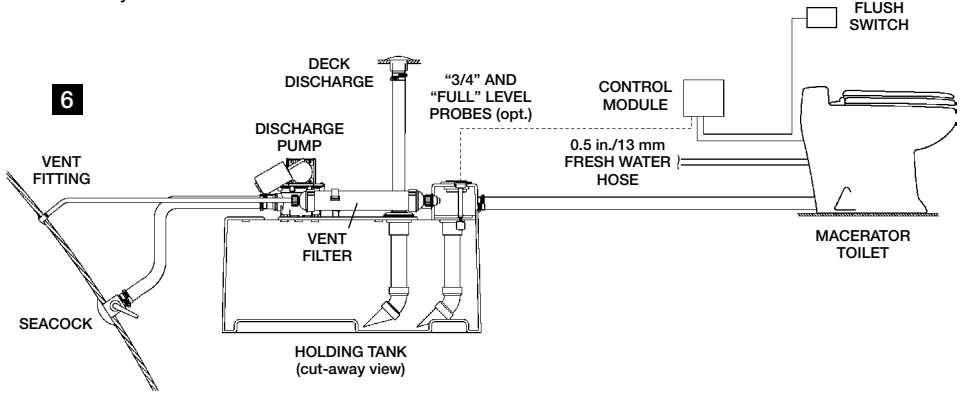
Ref.	Dimension
A	4.187 in. / 106 mm
B	5.25 in. / 133 mm
C	2.063 in. / 52 mm

## 5 Installation

### 5.1 Fresh water system layout - marine application

Dometic 8700 series macerator toilets can operate with an onboard pressurized freshwater system with a minimum flow rate of 2.5 gpm (9.5 lpm) at the toilet. Onboard fresh-water demand systems include a water pump that automatically draws water from a water

storage tank when a valve anywhere in the piping system is opened. Dometic toilets are equipped with an electrically operated water valve and a backflow preventer to prevent contamination of onboard potable supplies.

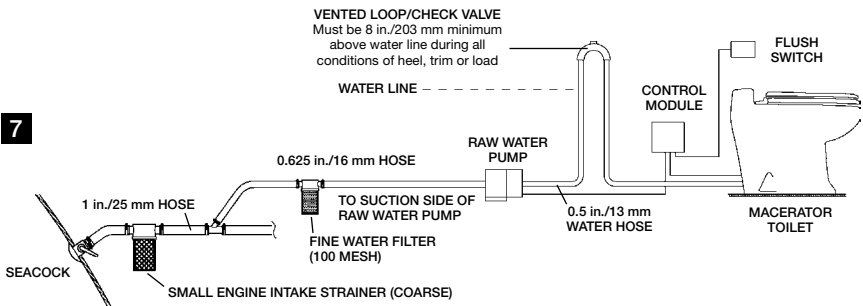


**Note**

Use cold water only. Include shut-off valve in water line for maintenance purposes.

### 5.2 Raw water system layout - marine application *(additional components required)*

Dometic macerator toilets can flush on seawater but require a separate pump for this purpose. The pump is activated by the signal from the toilet's electronic control module that would operate the integral water valve in a fresh water system. If the raw water pump draws more than 18 amps of current, a 12 or 24 V DC electrical relay must be installed.

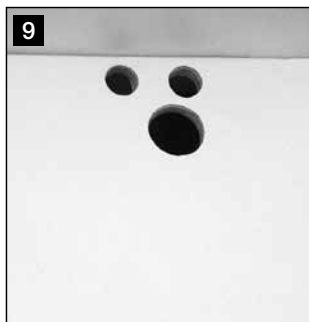
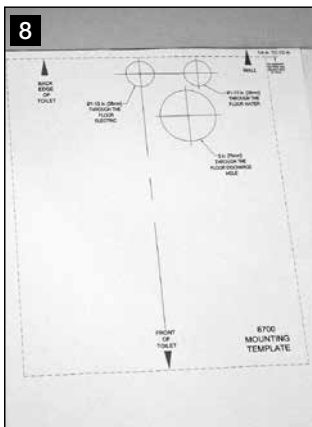


**Notes**

- Use cold water only. Include shut-off valve in water line for maintenance purposes.
- Use primary and secondary raw water filters.
- Raw water pump **MUST NOT** be demand-type. Pump is controlled by control module.
- Install vented loop as shown. It must be equipped with integral check valve that permits air into line to prevent siphoning.

### 5.3 Toilet system with wall touchpad and through-the-floor connections - all applications

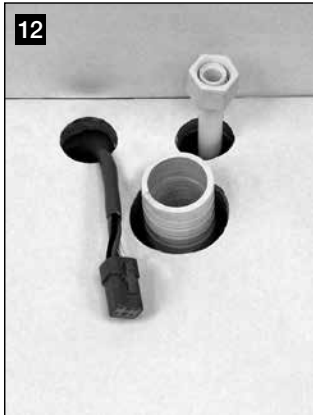
- Place floor mounting template in desired location (fig. **8**). For optimal user comfort, make sure walls or other interior fixtures are at least 11 in. (279 mm) away from centerline of template.
- Center punch all holes through template.
- Remove template from floor. Drill all access holes as indicated on template (fig. **9**).
- Plan flush switch panel and electronic control module locations so that electrical connections can be made with cables provided. Be sure module and wires cannot get wet.
- Use Dometic wall switch template to mark location of fastener and access holes. Drill 1 in. (25 mm) hole, then fasten panel bracket to wall (fig. **10**).
- Route Dometic flush switch panel cable (fig. **1 E**, p. 2) from ethernet connector on control module to access hole at flush switch panel location. Attach cable to Dometic DFT flush switch panel, then snap the panel cover onto the panel bracket (fig. **10**).
- Install control module in cool, dry location, then attach Dometic flush switch cable to ethernet connector on control module (fig. **11**).
- With electrical power off, complete wiring connections to control module. Refer to wiring diagram printed with parts list (packed separately).
- Route 4-wire control module cable (fig. **1 D**, page 2) to toilet through access hole in floor.
- Route water supply and discharge plumbing to toilet according to system requirements (Section 4.2). Make sure to provide extra discharge hose length to assure easy connection to toilet (fig. **12**, page 9).



#### Note

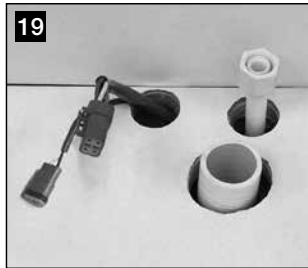
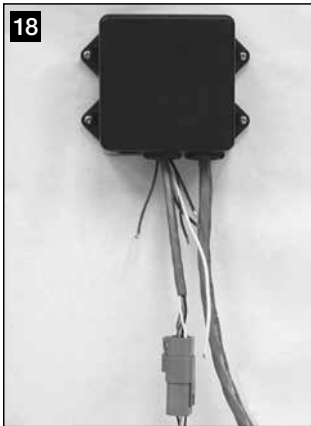
When installing Vimar or Gewiss flush switch/status panel, disregard instructions for installing Dometic touchpad switch. Install Vimar or Gewiss component on wall according to manufacturer's instructions, then attach end of cable to 6-wire connector (fig. **1 D**, page 2) at control module.

11. Loosen band clamp on discharge loop outlet and remove discharge adapter fitting/hose fitting assembly (fig. **13**).
12. Lubricate discharge fitting assembly and inside end of discharge hose with liquid dishwashing soap. Push discharge fitting assembly into discharge hose and connect with two hose clamps. Be sure to position hose clamp screws 180° apart from each other (fig. **14**). Place toilet near access holes and floor brackets.
13. Connect toilet water line and 4-pin connector to water supply line and control module cable.
14. Position toilet over floor brackets and tilt toilet up from back. Push discharge assembly fitting and hose up into discharge loop outlet. Lower toilet to floor and tighten band clamp (fig. **15**).
15. Turn on water supply and electrical power to toilet, and check for leaks. Press "Flush" switch (fig. **4 2**, page 2). If leak occurs, tighten connection.
16. At floor mounting holes, drill pilot holes for hex-head floor fasteners. Install fasteners and washers using a 3/8 in. (10 mm) socket wrench (fig. **16**).
17. Cover floor fasteners with plastic covers (fig. **17**).



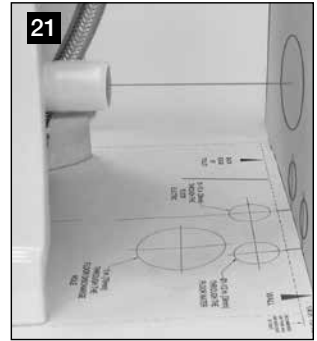
## 5.4 Toilet system with flush handle and through-the-floor connections - all applications

1. Follow steps 1-3 in Section 5.3.
2. Plan electronic control module and status panel locations so that electrical connections can be made with cables provided. Be sure module and wires cannot get wet.
3. Use Dometic wall switch template to mark location of fastener and access holes for DSS status panel (fig. **1 N**, p. 2). Drill wiring access hole, then fasten panel bracket to wall.
4. Route flush handle cable (fig. **1 O**, p. 2) from flush handle cable on control module (fig. **1 F**, p. 2) to toilet location, and route ethernet cable (fig. **1 E**, p. 2) to DSS status panel location. (If using status panel other than Dometic DSS panel, route orange connector end of Dometic flush handle cable (fig. **1 O**, p. 2) through access hole at toilet location. Route other section of cable through status panel access hole and connect to panel wires. Attach status panel to wall.)
5. Install control module in cool, dry location, then attach Dometic flush switch/status panel cable(s) to control module (fig. **18**).
6. With electrical power off, complete wiring connections to control module. Refer to wiring diagram printed with parts list (packed separately).
7. Route 4-wire control module cable (fig. **1 D**, p. 2) to toilet through access hole.
8. Route water supply and discharge plumbing to toilet according to system requirements (Section 4.2). Make sure to provide extra discharge hose length to assure easy connection to toilet (fig. **19**).
9. Follow steps 11-13 in Section 5.3 to connect discharge plumbing and 4-pin connector at toilet.
10. Connect 3-pin flush handle cable connector to 3-pin wire from control module (fig. **20**).
11. Follow steps 14-17 from Section 5.3 to finish installation and testing. Press flush handle down when testing operation and checking connections.



### 5.5 Toilet system with through-the-wall connections

1. To route wiring and plumbing connections through the wall, use floor template to locate the vertical centerline of each hole.
2. Place toilet in proper position and mark horizontal centerlines (fig. 21).
3. Drill holes sizes as indicated on template.
4. Route wiring and plumbing through holes, then follow toilet installation instructions beginning at Section 5.3 or Section 5.4, step 4.



## 6 RV installation appendix

### Wiring / Electronic Control Module Connections



**Warning!**

**Hazard of Shock or Fire:** Always use recommended fuse, circuit breaker and wire size. Failure to do so can cause the loss of property and life.



**Installation notes**

- Each toilet must have its own circuit breaker or fuse.
- Wire sizes must be appropriate for the installation. All other installation factors must be in accordance with ISO electrical standards.
- Always use stranded copper wire (preferably tinned).
- Always use crimp-type wire connections. Do not use wire nuts (they corrode).

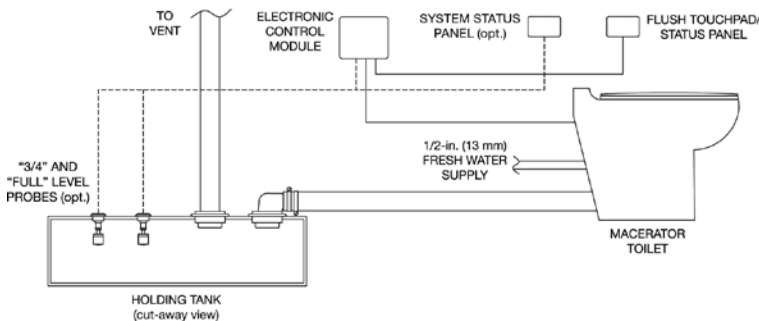
When installing a Dometic macerator toilet in a recreation vehicle, please use the following wiring information.

#### WIRE SIZING CHART

Wire size per length of run*	0-15 ft.	16-30 ft.	31-50 ft.
12 volts DC	#14	#12	#10
* Distance from circuit breaker to electronic control module.			

#### CONVERSION TABLE

Wire – AWG to mm <sup>2</sup>				Feet to Meters					
AWG	14	12	10	Ft	10	15	20	30	50
mm <sup>2</sup>	2.5	4.0	6.0	M	3.1	4.6	6.1	9.2	15.2





## 7 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	