



by Dometic GROUP

MasterFlush™ RV Toilets

INSTALLATION APPENDIX

Includes:

Water valve/vacuum breaker installation
RV toilet system layouts
Wiring/electrical connection information

for 8110RV, 8111RV, 8910RV, 8911RV model SeaLand® toilets

Warning – recreation vehicle applications

The following 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.

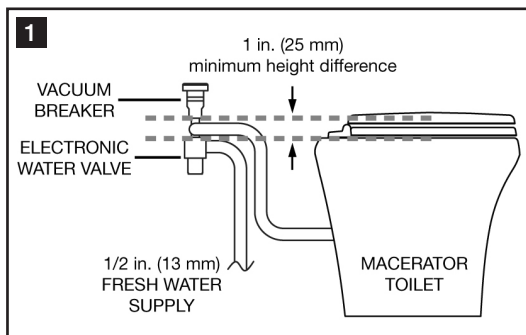
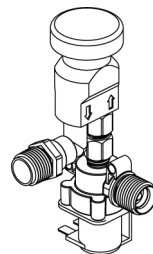
Installing Electronic Water Valve/Vacuum Breaker

Remote installation guidelines

Several MasterFlush toilet models include an electronic water valve/vacuum breaker assembly that must be installed in the water supply line at a location that is separate from the toilet. The purpose of this component is to eliminate the potential for water to siphon backward from the toilet bowl into the water supply if a sharp drop in supply line pressure occurs.

To protect the fresh water supply, the vacuum breaker portion of the assembly must be installed at least 1 inch (25 mm) above the ceramic rim of the toilet **1**.

Whether installed in a cabinet, behind or inside a wall, the water valve/vacuum breaker also must be accessible for maintenance purposes if ever required.



Note

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

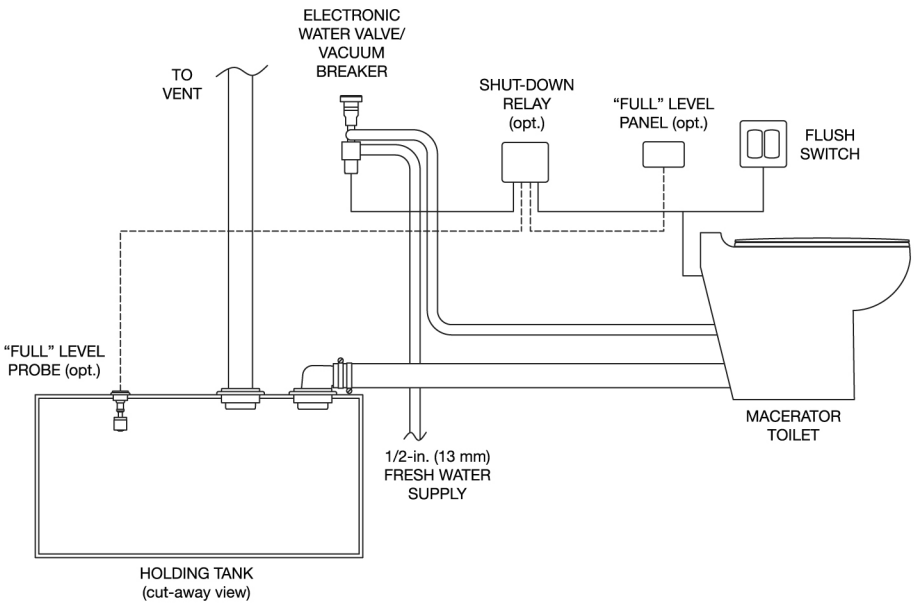
Refer to Section 4.2 and Section 5 of MasterFlush toilet installation manual, and wiring diagram/parts list for complete toilet system installation details.

MasterFlush 8100RV Series Toilet System

RV system layout

SeaLand MasterFlush 8100 series macerator toilets operate with a pressurized freshwater system, and require a minimum flow rate of 2.0 gpm (7.6 lpm) at the toilet* with a static pressure of 30-100 PSI/206-689 kPa. 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.

MasterFlush 8100 series toilets are equipped with an electrically operated water valve and an atmospheric vacuum breaker to prevent contamination of fresh water supplies. The system can be equipped with a waste tank level monitor and shut-down relay that, when connected to the "full" level probe of the waste tank, shuts off power to the toilet when the tank becomes full. This prevents overfilling the waste tank.



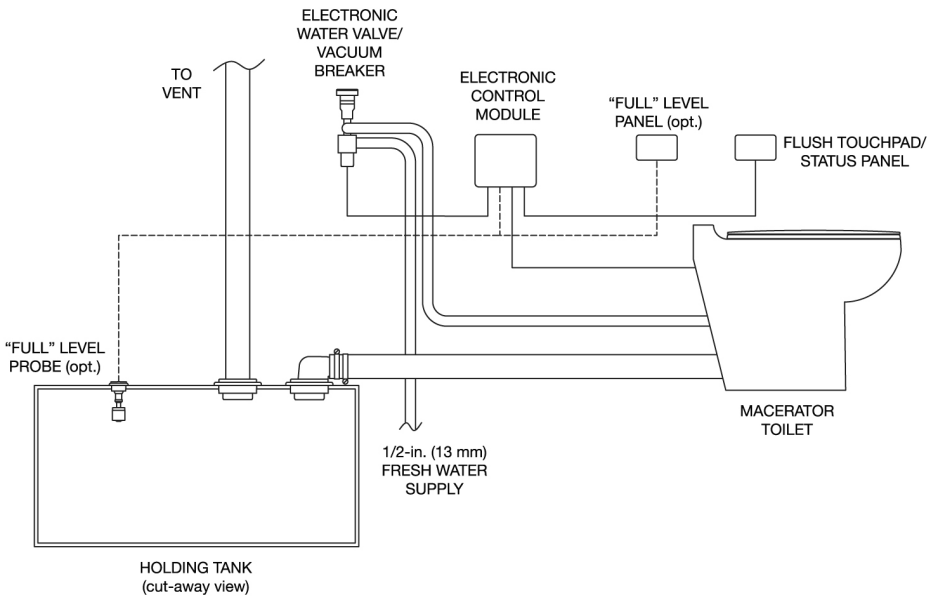
* 2.0 gpm (7.6 lpm) minimum flow rate published here supersedes the 2.5 gpm (9.5 lpm) flow rate in the MasterFlush 8100 toilet series operation manual (600346375) and installation manual (600346376).

MasterFlush 8900RV Series Toilet System

RV system layout

SeaLand MasterFlush 8900 series macerator toilets operate with a pressurized freshwater system, and require a minimum flow rate of 2.0 gpm (7.6 lpm) at the toilet with a static pressure of 30-100 PSI/206-689 kPa. 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.

MasterFlush 8900 series toilets are equipped with an electrically operated water valve and an atmospheric vacuum breaker to prevent contamination of fresh water supplies. The system can be equipped with a waste tank level monitor and shut-down relay that, when connected to the "full" level probe of the waste tank, shuts off power to the toilet when the tank becomes full. This prevents overflowing the waste tank.



Wiring / Electrical 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 SeaLand macerator toilet in a recreation vehicle, please use the following wiring information. Refer to MasterFlush toilet parts list for complete macerator toilet wiring diagram.

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 ²				Feet to Meters					
AWG	14	12	10	Ft	10	15	20	30	50
mm ²	2.5	4.0	6.0	M	3.1	4.6	6.1	9.2	15.2