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> SOG Toilet Ventilation System Type 3000 A User Manual

SOG Type 3000 A (Model 500259)

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Model: Type 3000 A (Model 500259) | Brand: SOG

1. PRODUCT OVERVIEW

The SOG Toilet Ventilation System Type 3000 A is an innovative solution designed to provide permanent degassing for Dometic CT3000 and CT4000 camping toilet cassettes. This system eliminates the need for chemical additives, offering an environmentally friendly and odor-free experience. A 12V turbine efficiently draws gases from the toilet cassette through an activated carbon filter, releasing clean air outside the vehicle. Key features include 12V ventilation, an odorless solution, and simple installation.



Figure 1.1: The SOG Toilet Ventilation System Type 3000 A shown installed within a Dometic toilet compartment. The system includes a flexible hose connecting the toilet cassette to an external ventilation unit, ensuring efficient odor extraction.

2. SAFETY INFORMATION

Please read all safety instructions carefully before installation and operation. Failure to do so may result in injury or damage to the product.

- Ensure the vehicle's 12V power supply is disconnected before beginning installation to prevent electrical shock.
- Installation should ideally be performed by a qualified technician or individuals with sufficient technical knowledge.
- Do not obstruct the ventilation outlet. Ensure it is clear of debris and allows for proper airflow.
- Use only genuine SOG replacement parts, especially for the activated carbon filter, to ensure optimal performance and safety.
- Keep the system away from excessive moisture or direct water spray, beyond its intended use within the toilet compartment.

3. PACKAGE CONTENTS

Verify that all components are present and undamaged before proceeding with installation.

- SOG Ventilation Unit (with 12V turbine)
- Flexible Hose
- Activated Carbon Filter Housing
- Connection Cables
- Cassette Adapter (green component)
- Sealing Plug with Keyring (black component)
- Mounting Hardware (screws, clamps, etc. - not explicitly shown but implied for installation)
- Metal Rod (for securing components)



Figure 3.1: Key components of the SOG system. On the left is the black sealing plug with a keyring, used to seal the toilet cassette. On the right is the green cassette adapter, which integrates with the Dometic toilet. A small metal rod is also visible, used for securing parts.

4. SETUP AND INSTALLATION

The SOG system is designed for integration with Dometic CT3000 and CT4000 camping toilet cassettes. Follow these general steps for installation. Refer to the detailed diagrams provided with your specific SOG kit for precise placement and drilling instructions.

1. **Prepare the Toilet Compartment:** Ensure the area around the toilet cassette is clean and accessible. Disconnect all power to the vehicle's 12V system.
2. **Install the Cassette Adapter:** The green cassette adapter (Figure 3.1) needs to be securely fitted into the designated opening on your Dometic toilet cassette. This adapter creates the sealed connection point for the ventilation hose.
3. **Connect the Flexible Hose:** Attach one end of the flexible hose to the cassette adapter. Ensure a tight, airtight seal.
4. **Mount the Ventilation Unit:** Position the SOG ventilation unit (containing the 12V turbine and filter housing) in a suitable location within the toilet compartment or an adjacent accessible area. This unit should be mounted securely, allowing for easy access to the filter for future maintenance.
5. **Connect the Hose to the Ventilation Unit:** Connect the other end of the flexible hose to the inlet of the SOG ventilation unit.
6. **Install the External Vent:** Determine the optimal location for the external vent on the exterior of your vehicle. This is where the filtered air will be expelled. Drill the necessary hole and securely mount the external vent cover. Connect the outlet of the SOG ventilation unit to this external vent.
7. **Electrical Connection:** Connect the 12V power cables from the SOG ventilation unit to a suitable 12V power source in your vehicle. Ensure correct polarity (positive to positive, negative to negative). It is recommended to connect it to a switched power source that is active when the toilet is in use or the vehicle is powered.
8. **Final Checks:** Once all components are installed and connected, restore 12V power. The system should operate quietly when the toilet is in use, drawing air from the cassette. Check all connections for leaks or loose fittings.



Figure 4.1: Illustrates the process of inserting the black sealing plug into the green cassette adapter, which is already integrated with the Dometic toilet cassette. This plug ensures a sealed system when the toilet is not in use or during transport.

5. OPERATING INSTRUCTIONS

The SOG Toilet Ventilation System Type 3000 A operates automatically. Once correctly installed and connected to a 12V power supply, the system will activate when the toilet's blade valve is opened, creating a negative pressure that draws odors out of the cassette and through the activated carbon filter.

- No manual intervention is required for daily operation.
- Ensure the 12V power supply to the system is always active when the toilet is in use.
- The system is designed to be quiet and efficient, providing continuous odor extraction.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your SOG system.

- **Activated Carbon Filter Replacement:** The activated carbon filter is the core component for odor elimination. It must be replaced at least once a year, or more frequently with heavy use. Refer to the filter housing for

specific replacement instructions.

- **Cleaning:** Periodically inspect the flexible hose and external vent for any blockages or debris. Clean the exterior of the ventilation unit with a damp cloth. Do not use harsh chemicals or abrasive cleaners.
- **Hose and Connection Inspection:** Annually check all hose connections and electrical wiring for wear, cracks, or loose fittings. Ensure all seals remain airtight.



Figure 6.1: A detailed view of the SOG unit installed, highlighting the flexible hose connection and the filter housing. A label on the unit clearly states that the filter should be changed annually. A product ID/serial number 00921000506008080010300000130313 is visible on the toilet cassette.

7. TROUBLESHOOTING

If you experience issues with your SOG Toilet Ventilation System, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
System not operating / No fan noise	No 12V power; Loose electrical connection; Faulty fan.	Check 12V power supply; Verify all electrical connections are secure; Contact SOG support if fan is faulty.

Problem	Possible Cause	Solution
Odors still present	Clogged or old activated carbon filter; Leaky hose connection; Obstructed external vent.	Replace activated carbon filter; Check all hose connections for airtight seal; Clear any obstructions from the external vent.
Unusual noise from unit	Debris in fan; Loose mounting.	Disconnect power and carefully inspect fan for debris; Ensure unit is securely mounted.

8. SPECIFICATIONS

Attribute	Detail
Brand	SOG
Model	Type 3000 A
Manufacturer Reference	500259
ASIN	B01GI1192C
Voltage	12 V
Compatibility	For Dometic CT3000 / CT4000 camping toilets
Color	White
First Available Date	January 15, 2020

9. WARRANTY AND SUPPORT

For warranty information, technical support, or to purchase genuine SOG replacement parts, please contact your retailer or the manufacturer directly. Keep your proof of purchase for warranty claims.



Figure 9.1: The official SOG brand logo.