

NOTICE

COMPLIANCE WARNING

The vessel manufacturer must comply with the requirements of CFR 40 1060.202.

Failure to follow these instructions may result in unintended fuel system over-pressurization or refueling issues. Users must follow these instructions to ensure vessel function and operation.

EMISSION-RELATED INSTALLATION INSTRUCTIONS

Failing to follow these instructions when installing the evaporative emissions canister in a piece of nonroad equipment violates federal law (40 CFR 1068.105(b)), subject to fines or other penalties as described in the Clean Air Act.

FEDERAL REGULATIONS

Federal regulations (CFR 40 1060.101 (f) (1) (iii)) require that the fuel system is **designed such that liquid fuel and/or liquid water can not reach the carbon canister**. This ensures that the canister functions properly for all refueling and diurnal events.

A device must be installed to ensure that **liquid fuel does not reach the carbon canister** under any circumstances including vessel operation, storage, refueling, and towing conditions. There are many acceptable devices that prevent liquid flow to the canister.

A device must be installed in such a way that **liquid water does not reach the carbon canister** under any circumstances including vessel operation, storage, refueling, and towing conditions. There are many acceptable devices that prevent liquid flow to the canister.

Federal regulations (CFR 40 1060.101 (f) (3)) require that you must design and build your equipment such that operators can reasonably be expected to **fill the fuel tank without spitback** or spillage during the refueling event. There are many acceptable devices and system designs to achieve this requirement.

Federal regulations (CFR 33 183.544) require that each fuel system fitting, joint, and connection must be arranged so that it **can be reached for inspection, removal, or maintenance** without removal of permanent boat structure.

WARRANTY

The 999CC series carbon canisters are covered by a **two (2) year limited warranty** from the date of a boat's first retail sale.

Big Dog Marine warrants that any 999CC series carbon canister is free from manufacturing defects and is designed to conform with 40CFR.1060 at the time of sale to the boat builder. For two (2) years from the date of the boats first retail sale, Big Dog Marine will repair or replace any carbon canisters that fail due to a defect in material or workmanship. This warranty is void if the canister has been damaged or altered by accident or unreasonable use, neglect, improper service, installation, or other causes not arising out of defects in material or workmanship. **BIG DOG MARINE OFFERS NO WARRANTIES REGARDING ANY COMPONENT NOT MANUFACTURED BY BIG DOG MARINE.** Boat builder is responsible for the installation of all systems, whether installed by boat builder or under its direction.

INSTALLATION

TOOLS/ HARDWARE REQUIRED (not included)

- Four (4) screws #10 or #12 stainless steel pan or flange head
- Screwdriver, or hex driver (depending on fasteners selected)
- Drill bit and drill (pilot holes)
- Two (2) stainless steel hose clamps
 - 5/8"ID hose requires clamp min 3/8" wide
 - 5/16"ID hose requires clamp min 5/16" wide
- Pen/Marker

LOCATION

1. Carbon canister must be installed in the vent line between the tank and fresh air vent component.
2. Joints must be accessible without the removal of permanent boat structure.
3. Must be flat surface with sufficient thickness for screws to ensure solid mounting robust for vibration and shock loads.
4. Must be clear of other components, in low traffic area and protected from being stepped on.
5. Must have direct access with driver to bracket mounting holes and hose clamps.
6. If mounting inside the engine compartment, the canister must be equipped with a heat shield (999CC45HS, 999CC65HS, 999CC85HS).
7. If mounting below the top surface of the fuel tank, the canister must be equipped with a heat shield (999CC45HS, 999CC65HS, 999CC85HS).

MOUNTING

1. Always use the provided brackets when mounting to boat.
2. Manually hold the carbon canister in desired location and ensure it meets LOCATION requirements above.
3. Mark mounting holes with pen/marker by using the bracket holes as a template.
4. Remove carbon canister and drill pilot holes in four (4) locations.
5. Hold carbon canister in position while starting screws.
6. Secure in place using stainless steel screws. Do not over tighten screws.
7. Loosely place hose clamp over hose end.
8. Firmly insert hose over carbon canister barb until hose bottoms out against orange end cap.
9. Locate center of clamp 1" from orange end cap and secure tightly. Do not over tighten.
10. Leak test system per CFR33 requirements. Canister may not be pressurized to more than 5 psi.

NOTES

1. It is normal for the carbon canister to heat up during the first refueling event.
2. Inspect all connections annually.
3. Visit our website for more instructions and demo videos.