REQUISITES FOR INSTALLATION:
- Bracket mount: Phillips head screwdriver, flat head screwdriver, and hex key, or hex socket (depending on fasteners selected)
- Bracket/canister mount: hex socket
- Flat head or counter sunk screws
- #10-24 HD tap (optional for aluminum construction)
- Four #10-24 stainless steel pan or flange head screws (for bracket mount to hull)
- Two (2) 3/8 x .25 in-lb torque (-26-28 Ulf) stainless steel fasteners. Flanged head with 325" minimum flange diameter acceptable.
- Two (2) self locking, nylon insert or deformed thread, stainless steel hex nuts which meet ANSI/ASME B18.2.2 (i.e. 7/16" hex)
- Two (2) stainless steel flat washers of 625" minimum diameter if flanged fastener is not used.

LOCATION:
1. Mount on a flat surface where risk of terminal leads being applied to the canister is minimal
2. If mounted within the engine compartment, the canister must be equipped with a heat shield (99CC030H1, 99CC085H1, 99CC150H1). Please refer to your Carbon Canister Heat Shield instruction sheet for details.
3. For aluminum construction, the bracket must be fastened. If the substrate is of sufficient thickness, they may be installed by drilling and taping the aluminum substrate.
4. For fiberglass construction, the substrate must be of sufficient thickness, with a fiberglass-wood or similar laminate construction.
5. The carbon canister must be installed using the provided brackets.
6. Do not install carbon canister where it can be stepped on.
7. When possible, install carbon canister above top surface of tank to allow self draining lines (not required).

MOUNTING INSTRUCTIONS (Figure 1)
Horizontal orientation
1. Select a flat mounting surface above the bilge, clear of moisture from spray or deck wash.
2. Using washers which have direct access with driver, with canister installed in the horizontal position (2 per bracket), mark mounting holes.
3. Drill holes for #10 screws and secure unit in place using stainless steel screws.
4. Do not overtighten screws.
5. With hardware provided, tighten bolt to nut at 65 +/- 3 in-lb torque.

Vertical orientation
1. Select a flat mounting surface above the bilge, clear of moisture from spray or deck wash.
2. Mark the brackets may be on the same side or opposite sides in the vertical position.
3. Using the two (2) mounting holes which have direct access with driver and are at opposite corners with canister installed in the vertical position (2 per bracket), mark mounting holes.
4. Drill holes for #10 screws and secure unit in place using stainless steel screws. Do not overtighten screws.
5. With hardware provided, tighten bolt to nut at 65 +/- 3 in-lb torque.

Hose Installation
1. Use 5/8" I.D. A1 or A2 vent hose to connect to the inlet and outlet of the Carbon Canister. If the vent line is self draining and located outside of the engine compartment, then 5/8" I.D. B1 or B2 hose may be used.
2. Install vent hose from the FLVV to inlet of the canister and from the outlet of the canister to the Attwood 1674 T-Port Vent.
3. All hose connections must be made with 3/8" hose barb and use 3/8" hose barb connecting to CFR 33 requirements (canister may not be pressurized to more than 3 psi).
4. All connections must be insulated properly.

Note: During the first refueling event, the canister will heat up due to the carbon being activated for the first time.

MANUFACTURER REQUIREMENTS
The information below applies only to CFR 40 1060.135. The vessel manufacturer is responsible to meet all additional regulatory labeling requirements including EPA, USCG, USCG and others as necessary. The below information is for reference only. The vessel manufacturer should refer to CFR 40 for complete labeling guidelines.

In order to meet the requirements of CFR 40 1060.135, the vessel must be labeled with respect to evaporative emissions in the following manner when installing certified components.

Excerpt from CFR 40 1060.135
(a) You must affix a permanent and legible label identifying each engine or piece of equipment, or any part of an engine or equipment needed for normal operation and not normally requiring replacement.
(b) You shall not replace any components that fail due to a defect in material or workmanship.

Emission-Related Installation Instructions
Failure to follow these instructions or those included with the Attwood 99CC series Carbon Canisters in a piece of nominal equipment violates federal law (40 CFR 1088.10(1)), subjects to fine or other penalties as described in the Clean Air Act.

CARBON CANISTER INSTALLATION INSTRUCTIONS:
Federal regulations (CPR 40 1060.101 (5)(1)(1) (ii)) require that the fuel system is designed so that liquid fuel and/or liquid water cannot reach the carbon canister. This ensures that the carbon does not diminish or degrade which can result in the reduction of the performance of the carbon canister and its ability to perform the required evaporative emission control.

Take the following steps to ensure liquid fuel and/or liquid water does not reach the carbon canister:
1. Install Attwood 99FL and/or 99GV series vent valves in the line between any liquid fuel reservoir and the Attwood Carbon Canister. Install the Attwood 99FL, between the carbon canister and any 990 series vent valves. The Attwood 99FL and 990 series valves have been validated to ensure liquid fuel does not reach the vent line and/or the Carbon Canister during vessel storage, operation and maneuvering due to sloshing, filling or expansion of the fuel. Follow all installation instructions for the 99FL and 990 series Grade Valves to ensure safety and proper function.

Note: The Attwood carbon canister can be mounted in any relative position to the fuel tank when Attwood 99FL and Attwood 99GV series valves are installed in the vent line between any liquid fuel reservoir and the Attwood Carbon Canister.

2. In order to prevent liquid water from reaching the canister, install Attwood 1674 Series T-Port Vent in the vent line after the Carbon Canister. Follow all installation instructions for the Attwood 1674 Series T-Port Vent.

Important safety instructions (For all Attwood 99FL/99GV/99CC/99ICV/99DF components):
When a fuel system is configured with Attwood 99FL and/or 99GV series vent valves the following safety precautions must be taken:
1. Use an Attwood 99ICV series Inlet Control valve between the liquid reservoir and the Attwood Carbon Canister. The Attwood 99ICV series Inlet Control valve selects features to allow vapor and liquid to pass the valve in order to ensure the system does not become acclimated over pressurized.
2. Use only an Attwood 99DF series Deckfill. The Attwood 99DF series Deckfill includes overpressure relief safety valves that allow unintended pressure to be released in the event that the tank becomes accidentally overfilled and/or over pressurized.

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