

Permanent Fuel Tank

YOUR MOELLER PROMISE: Every Permanent Fuel Tank is designed for functional durability and performance. For your safety and for best results, pre-read the following instructions completely before installation. We, at Moeller Marine, thank you for your purchase.

BEFORE YOU INSTALL:

- **Organize all the hand tools you will need** to complete installation of your permanent fuel tank. Necessary tools may include a tape measure, a flat-blade screwdriver, and pliers or wrench.

⚠ WARNING IMPORTANT: AVOID USING POWER TOOLS AROUND FUEL VAPORS WHICH ARE EASILY COMBUSTIBLE.

- **For best results and ease of installation,** we recommend using Moeller's Permanent Fuel Tank Installation Kit (Part #35723) not included. This kit provides the additional hardware and hoses, including a stainless steel deck fill and chrome-plated brass thru-hull vent, suggested for a proper below deck tank installation.
- **Determine the best placement of your fuel tank,** positioning it where the vent and fuel hose connections to deck will form the shortest line. Make sure that the electrical sending unit is still accessible in this location.
- **Replace an existing fuel tank** by removing the old unit.

PROPER FUEL TANK INSTALLATION:

- **Secure fuel tank into position.** We recommend using our stainless steel Permanent Fuel Tank hold down kit (Part #35710); may not be included with your tank.

⚠ IMPORTANT: Do not use foam to secure tank in place. Resin fuel tanks require a multidimensional expansion area of 2-3% at all times; foaming a tank in place removes the chance for hydrocarbon expansion and will void tank warranty.

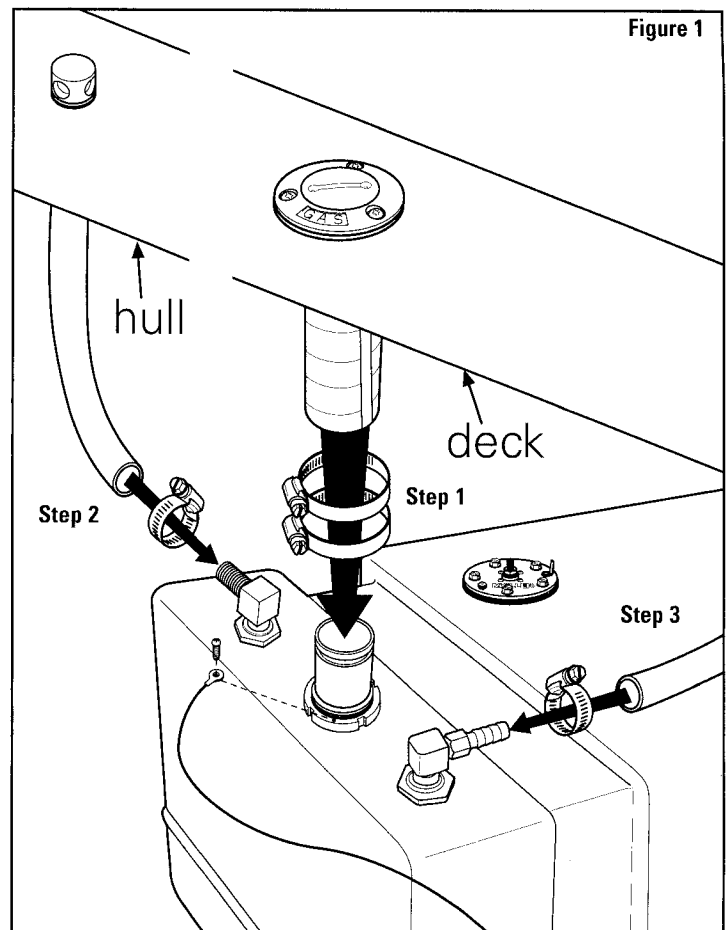
ATTACH FUEL FILL HOSE: (See Figure 1, Step 1)

- **Slide two large hose clamps onto fuel fill hose** and leave loose.
- **Check hose length** from deck fill point to tank and trim as needed.
- **Slip the hose over the tank fill fitting** and secure by tightening clamps into place 1/4" from the end of the hose.
- **Tighten the second clamp into place,** leaving an 1/8" gap between the two clamps to ensure that the clamps do not touch (see Figure 2). **Note:** Coast Guard guidelines requires the use of two hose clamps at each end of the fuel fill hose.
- **Connect an earth-end-ground wire** to one of the two terminals found at the base of your tank's fill neck and use the stainless steel split ring lock washer and screw fitting to secure.

⚠ Important: to avoid a dangerous build-up of static electricity in your fuel system, make sure to employ an earth to ground hook-up to your tank. Likely grounding sites may include metal surfaces on your engine mount or outdrive. Grounding wire should not be attached to a painted surface and should be checked regularly for corrosive buildup.

ATTACH VENT HOSE: (See Figure 1, Step 2)

- **If your tank does not have a molded on vent,** thread a hose barb into your tank's vent. Do not over-tighten. We recommend the additional use of a gasoline and diesel resistant seal compound to guard against leakage.
- **Slide a small hose clamp onto vent hose** and leave loose.
- **Check hose length** from thru-hull vent to tank and trim as needed to avoid kinking.
- **Slide end of vent hose over the vent fitting** and secure in place by tightening hose clamp 1/4" from hose end.



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ATTACH FUEL WITHDRAW HOSE: (See Figure 1, Step 3)

- **Thread a hose barb into your tank's fuel withdraw.** Do not over-tighten. (See Figure 2) We recommend the additional use of a gasoline and diesel resistant seal compound to guard against leakage.
- **Slide a hose clamp onto withdraw hose** and leave loose.
- **Check length of hose** and trim as needed to avoid kinking.
- **Slip hose over tank withdraw fitting;** secure in place by tightening hose clamp 1/4" from end of hose.

FOR A NO LEAK INSTALL: (See Figure 3)

- **A leak test should be conducted around seals and connections.** Pressurize the tank to 3 PSI then use soapy water to look for air bubbles around these areas. If unfamiliar with this procedure, seek professional assistance.

PROPER WIRING INSTALLATION: (See Figure 4)

- **Connect sender wire** from fuel gauge to the threaded screw terminal on the fuel sender. Use attached nut and washer to secure wire in place.
- **Connect a grounding wire** to the 1/4" fasson terminal on fuel sender.

⚠ IMPORTANT: If you are unsure of any of these detailed procedures, seek professional assistance.

⚠ WARNING GASOLINE IS EXTREMELY FLAMMABLE. KEEP TANK AREA FREE FROM SPARKS AND FLAMES. EMPTY TANK OF FUEL AND FUMES BEFORE CONTINUING WITH INSTALLATION.

