

Ghibli Fuel Tank Vent/Overflow

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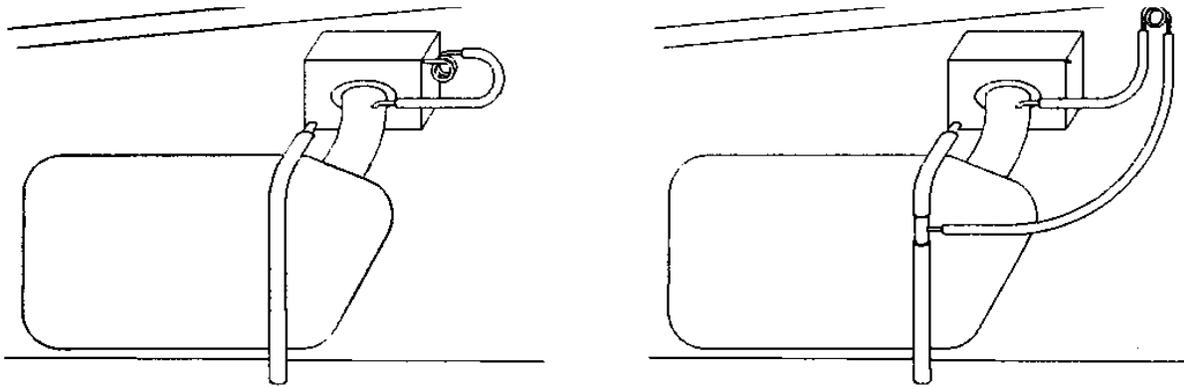
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I hope that the Ghibli fuel tank overflow system is unique to this car because it utilizes the worst possible design.

For those unfamiliar with the car, there are two tanks located behind the rear wheelwells and just inside of the body panels. After the tanks are filled to near capacity, the sun heats the sides of the car body, heating the tanks and causing gas to expand considerably and overflow.

Unfortunately, the overflowing gas is dumped into the top of the tank fill compartment, flowing down the back wall, out of the bottom corner and exiting below the car. This bubbles and ruins the paint inside of the fill compartment.

There is an easy fix. First, remove the rear and then the side leather panels. Note that some of the fastening screws are hidden along the carpet.



EXISTING CONFIGURATION

MODIFIED CONFIGURATION

VIEWS WITH LEATHER REMOVED

Remove the coiled siphon tube that is welded at the top corner of the fill compartment using a hacksaw. Leave the hole in the side of the fill compartment -- it will appear stock from the outside. Suspend the siphon tube with a tie wrap from the roof brace as shown. Add a 3/8"x3/8"x1/4" brass hose tee as low as possible in the fill compartment drain hose. I fabricated each tee using (1) 3/8" pipe tee; (2) 3/8" male NPT x 3/8" hose barb; (1) 3/8" x 45 degree street elbow; (1) 3/8" male NPT x 1/4" hose barb.

Connect the siphon tube to the gas tank fill neck and to the tee with new gas hose. Remember to recheck tightness of all hose clamps.

Other thoughts:

For anyone removing the rear leather panel for the first time, look under the felt pad to see the fuel pumps, check valve tee and hoses. If your fuel hoses have never been replaced -- do it now! While you are replacing the hoses, clean or replace each fuel pump filter, accessible via a twist-off cap at the bottom of the pump. If you are really getting into this, there is also a filter to check in each fuel tank outlet fitting.