



2010 43QGP Allegro Bus

3/8/2011

NINETH coach modification CORRECT THE FUEL FILL PROBLEM

Tiffin with almost every coach they build creates a fuel fill problem when the fuel fill hose is installed. The length of the rubber fuel hose allows the hose to stretch over time which then allows the hose to sag creating a low point or belly in the hose. That sag prevents the adequate venting of air in the fuel tank, as air attempts to vent through the fill hose the fuel in the low point is expelled which turns OFF the fuel nozzle. Below is a picture of our passenger side fuel fill hose as Tiffin installed it at the factory. The angle of the picture does not really do justice to the actual amount of sag in the hose.



I decided to modify the way both fuel fill hoses were mounted. Alas the first attempt did not help at all. I had been told to loosen the hose clamps on both ends of the hose, then turn the hose (rotate the low part of the hose to the top) then re-tighten the hose clamps. It did not take long for me to realize that at best this was a short term fix, as when the hose bowed again due to gravity the bow/sag would be back at the bottom.

After scratching my head, I decided to add a 20 inch piece of 1/2 inch steel tubing to the top of each fuel fill hose using three hose clamps. That way a

hose clamp would be around the rubber hose about every 8 inches supporting the hose rather than having a 24 inch hose without any support.



The above DS fuel fill modification shows the downward slope of the fill pipe between the fuel fill and the fuel tank and it also shows the tank vent hose does not have a low point in which fuel can collect which then shuts OFF the fuel nozzle when a fuel bubble is expelled.

As with most side filled tanks, the tank cannot be completely filled, however by design the tank should not be filled more than about 90% of its capacity. My fuel tank after the modification turns OFF the fuel pump at a consistent point each and every time I fill the fuel tank from either side of the coach.