



## 2010 43QGP Allegro Bus

4/19/2011

**FIFTEENTH** - coach modification, **MODIFYING THE ONAN'S GENTURI STACK**. Many of our regular camping events require the use of a generator stack when operating the generator. We purchased a Genturi stack soon after the purchase of our first diesel motor-home. A competitor of Genturi later designed a better more efficient method of removing the exhaust and cooling the stack plastic material at the same time. Like most good companies the new design was copied when building their newer Genturi's.

Recently I decided to modify our almost ten year old Genturi stack after a new exhaust elbow became available to me. The new part was the exhaust elbow from my new Genturi, which we purchased to use on our Aqua Hot diesel burner. The NEW Aqua Hot Genturi required immediate modification due to the Aqua Hot having a 2 inch exhaust. (See coach modification # 14 for more information on the Aqua Hot Genturi).

The salvaged elbow came with six pre-drilled holes ready for my use.



The new design places the exhaust pipe below the black plastic pipe leaving an air space between the two pipes for more cooling air to be drawn into the stack than the original design allowed, which aids in cooling the exhaust gases and stack piping as it flows upward and away over the top of the coaches. The old method had the metal exhaust pipe inserted into and centered about three inches up inside the black plastic pipe which limited the volume of cool air which could be drawn into the black plastic pipes updraft. I used 1/8 inch by 1/2 inch aluminum bar stock to make the mounting brackets. The three brackets were cut 7 inches long and bent to match and also allow 2 inches of open space between the two pipes, that spacing allows plenty of cool air to enter the exhaust's updraft.



12 - 3/16 inch pop rivets were used to secure the aluminum brackets to both steel and plastic pipes. This modification requires the shortening of the first (lower) plastic pipe section by 6 inches **BEFORE** the aluminum brackets are mounted. The above updraft modification added six inches to the lower pipe sections length without shortening the plastic pipe the lower section would be too long to fit into its zippered storage bag. A 2 1/2 " by 1/4" clip is also used to secure the elbow to the exhaust pipe in this generator Genturi.