

## Honk-honk



It can be read in various places that depending on the country or areas pop-pop engines have different names: Toc-toc, Putt-putt, Can-can, Phut-phut...and Pouet-pouet (France). This last onomatopoeia corresponds to Honk-honk in English. It is the sound of an old car horn. Therefore, in 2007 I decided to build a Honk-honk boat. Photo above. The lighter is just there to give the scale.

Basic materials: mainly reuse. The tulip of a light fitting (to hide electrical connections) and the covers of 2 old toggle switches.



Note: the tulip shown here-above to illustrate this document is slightly different, the one of the engine being unable to recover its former use, even for the duration of a photo.

The engine hotter part (the one in the vicinity of the flame) is made of copper and is silver brazed. All the rest is made of brass. The volume of the evaporator is voluntarily large in order to get a low frequency. Between both covers a thin sheet of brass (5/100mm) has been soldered with soft metal. The other pieces of information are given by the photo.



For the burner, the wick support of an old oil lamp has been used. Advantage: the heating power is easily adjustable.



And to end up this had to be located into a hull. This one is made of 20/100mm tin. The deck and the superstructures (very simple. See previous page) are made of plywood. However, there is a metallic screen (attached to the roof) to canalize the heat towards the evaporator and then towards the chimney to prevent firing the plywood.



#### Results:

The engine ran at the first attempt.

The frequency is low (as expected).

The sound level is not as much as one could imagine when looking at the engine.

On several occasions this Honk-honk boat ran for 3 hours without any fault (with some more alcohol from time to time in the burner reservoir).