

Hey Guys,

I'm adding an easy oil separator to my Teenie that I wanted to share with y'all.

I ran into Buck, a fellow E-AB guy, who flies a Sonex out of my home base KCLS. He asked me what I was doing to control oil blow by out the breather tube, and showed me his setup on his Aerovee. He has many hours on the setup and is very happy with the results...most notably a clean aircraft belly!

I located his post regarding his mod, called a 'poor man's oil separator' on the AirVW – Alternative aircraft engines group and asked him if I could post it to the Teenie group. He said, of course, please share it.

Here's Buck's mod:

There are only two parts needed, both are procured from the housewares section at your local Walmart aviation supply store.

A stainless steel mesh sink strainer, and a stainless steel scrubbing pad.



By: [buck33k](#)
File Name: 015.JPG

Posted: Jan 9, 2013
Resolution: 480x360
Size: 70KB

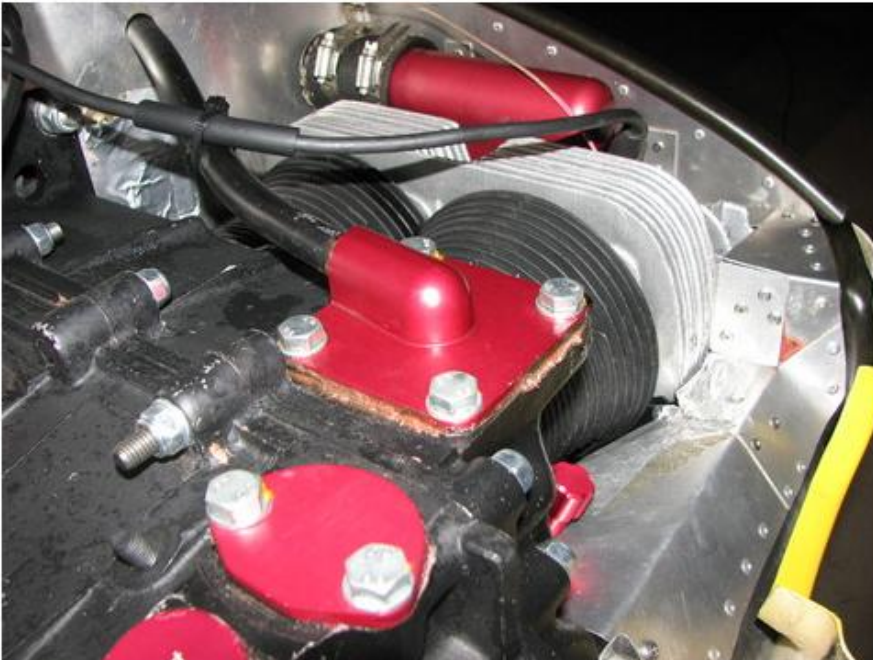
Cut the rim off of the strainer and insert the scrubber into the strainer as shown.



By: buck33k
File Name: 002 (2).JPG

Posted: Jan 9, 2013
Resolution: 480 x 360
Size: 323 KB

Install the strainer/scrubber assembly under the breather plate so the strainer hangs down into the engine case and supports the scrubber. Seal the breather plate with silicone.



By: buck33k
File Name: 014.JPG

Posted: Jan 9, 2013
Resolution: 480 x 360
Size: 294 KB

The oil vapor will collect on the scrubber material and drip back into the engine, but the gasses will pass thru. The strainer/scrubber assembly, being stainless steel, won't rust or rot.

Here's the text of Buck's post from February 23, 2013 in the other group:

--- In AirVW@yahoogroups.com, "Buck" <buck33k@...> wrote:

>

> I remember a few years ago seeing a post where a scouring pad was used in the air breather to reduce blow by. My concern at the time was the scouring pad dropping into the engine. Using this idea, combined with a sink strainer makes a great oil separator. I now have 140 hours on this system and it is very, very effective. The engine is an aerovee with Great Plains crank and hub/bearing.

> The sink strainer is available at Walmart for 99 cents. A piece of 3M ss scouring pad is inserted in the strainer and installed with silicone under the breather cover. I believe the screen plays a big part in filtering out the oil blow-by.

> My friend did the same with his Sonerai and the results have been great...dry engine. I have posted pictures under Photos with the title "Poor man's oil separator". I hope they will be self-explanatory.

> Buck

>

By the way, the Sonerai driver Buck mentions is also based at KCLS...small world, eh?

I'll be adding this mod to my 1600 before I head out later this week.

Tom