Tom Brusehaver:
*“I did it in 3 steps.*

*1 use manilla folders to make the templates from the plans. Tape and recut as necessary.*

*2 use dead soft aluminum flashing from home store to make first take from the manilla templates. Flashing cuts with scissors and is so easy to work with, but doesn't stretch like paper. It is cheap, so if it isn't right (around alternator) make a new one.*

*3 make them actual baffles from plans recommended aluminum based on the flashing templates.*

*I think the process took just a couple days.”*

Chrissi Bush:

*“I'd say Kevin is correct; every set of baffles is going to be unique unless they go into a set of series-built planes. We're doing baffles in our Long-EZ and it is an iterative process of fine tuning your templates.*

*The value of a set of CAD drawings is for the fixed part of the design; they're going to fit your engine not the cowl.*

*Print out the templates, glue stick them to some art board and fit them on your engine then stick pieces of paper on them until they touch your cowl, remove and offset the outline of the cowl back 3/8 to 1/2" and you have a pattern.”*

Todd Carrico: *“Without hijacking the thread too much, is there much room for composites when it comes to baffling? I remember some talk of BID and RTV, but is there more?

I have this note from one of Klaus's discussions:
"Wrap this around cylinders and then layup for baffles:*[*https://www.freemansupply.com/products/specialty-waxes/sheet-wax*](https://www.freemansupply.com/products/specialty-waxes/sheet-wax)*"*

*Just curious if there are other areas where I can avoid the "death by 1000 cuts" that I seem to get into around aluminum.”*

***(Beagle:*** *I remember Allen Floyd having Dave Ronneberg’s help with molded baffles for the cylinder wraps – he might still have the molds. I did a photo study of his most recent O-540 baffle creation, divided in two: Library #23SIII40, and #23SIII41.)*

On 1/9/2023 3:04 PM, Kevin R. Walsh wrote:

I have the .DWG files that were used to generate the .DXFs. I see them of little additional value as any CAD program can import a DXF. I can probably dig them up and send them to Marc if people care.

If it helps any, I have access to a very sophisticated CAD package including the sheet metal package, a 10' x 5' waterjet table, and a CNC bending brake that can place bends in very specific places and radii. My job is to engineer aerospace vehicles to be easy to build and yet be inexpensive, which is why I have all of these tools available to me. With all that said, I have repairs to make, to at least two, of my baffles right now, and I'll do them by hand instead of using this incredible capability I have. Why? Because in the end it will be faster. While the CAD and waterjet will get me close, they will require cutting and trimming to clear various things. So, while the allure of the CAD/CAM approach is there, for these I think it is probably not of much value.

Now, if I was building a series of aircraft, all with the same engine, and I needed baffles for those, I'd be firing up my NX station, not my band saw.

On Mon, Jan 9, 2023 at 7:47 AM Alex Liedl <liedl08@gmail.com> wrote:

Thanks Kevin and makes sense.  That said would anyone be interested if I were to convert the plans baffles to dwg to have in addition to the ones you provided?  Already did so for the Titan tapered cylinders and am about half way through the m drawings now after I scanned the full size at the local FedEx store.  If it adds value to the community, when I’m done, I can ask Marc to upload to the site?  Maybe another tool in the tool box.

On Sun, Jan 8, 2023 at 11:29 AM Kevin R. Walsh <krwalsh@alum.mit.edu> wrote:

On Sun, Jan 8, 2023 at 8:22 AM Alex Liedl <liedl08@gmail.com> wrote:

Curious if anyone has any DWG files they would be willing to share for the plans MKIV baffles.

I believe the set on Marc’s website is the set I provided.

I saw the supplemental cad files on Marc’s website but wasn’t able to find them. Looks like the baffles that are represented there are for a Berkut.

That is correct. I got the original files from Richard Riley, and modified them to fit the Cozy MK-IV.

Figure I would ask this group first before trying to recreate the M drawings myself.  I’m going to have to modify them a bit to fit my Titan 370.

This is basically why they never got modified more. Every engine, installation, cowl, accessory, etc. makes it so the baffles are custom made. So, my suggestion is to print the CAD files that I provided, 3M 77 them to some poster board, and fold them up to fit your engine. After you’ve modified them, trace them out of aluminum and make a set. In fact, make 3 sets because you’ll inevitably fold one in the wrong direction, miss a bend by 1/8” so they don’t fit, etc.