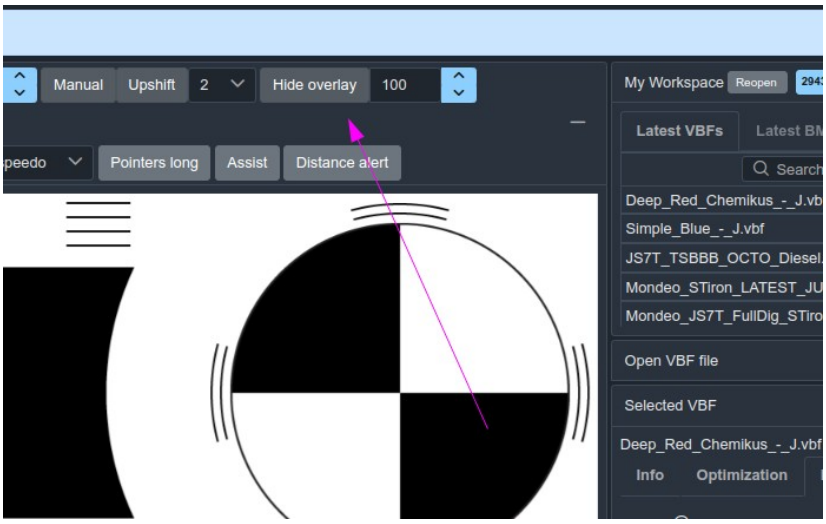
Ok, I'll do my best to write in English…

This is how I would start making a template for the digital IPC dashboard from the Mondeo MK5 (and other cars as well). There are other way's but you'll have to search the best way for yourself.

First of all, you have to prepare an empty file with dimensions 1280px X 422px. Doesn't matter in what program. Photoshop, Gimp, whatever… At this moment you can choose in what extension you will save the file. When we will prepare it to upload, we're going to convert it to BMP.

Then you can start making the template file. The scales and maybe other things you can add. You can use this as a layout (1280px by 422px). This way you can see which are the MAX sizes .

You also will find this option on the PMF (Pimp My Ford) app under overlay.



There are people who create the scales in PS. You also can use GIMP or every other program you are familiar with.

There are 2 sorts of template files. You have the active part and the quiet. The active part, which you have to name (_active_*blablabla*.bmp) is like this :

This is the normal view. When you switch in the car to speed in the middle, lane keeping or whatever option, this is the screen you will see.

The quiet one (_quiet_blablabla.bmp) is like this :

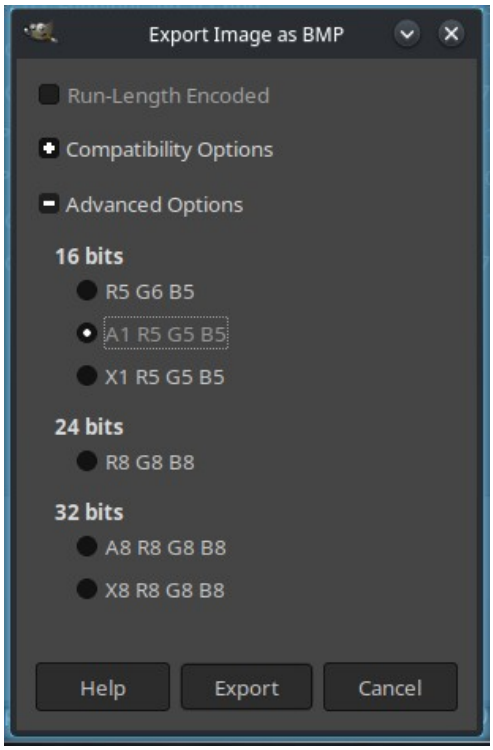
This is when most options are disabled on the IPC. In this screen, some places can't be used. So they stay black.

So _active and _quiet, these prefixes will always be used when saving a template.

When you think your file is ready, you can save it. Remember you will always have some quality loss. You will notice this when you upload the template to the app.

Also when uploading to the car itself, you will notice that some colors are different than on your pc or laptop screen. Too light, too dark, … You'll see.

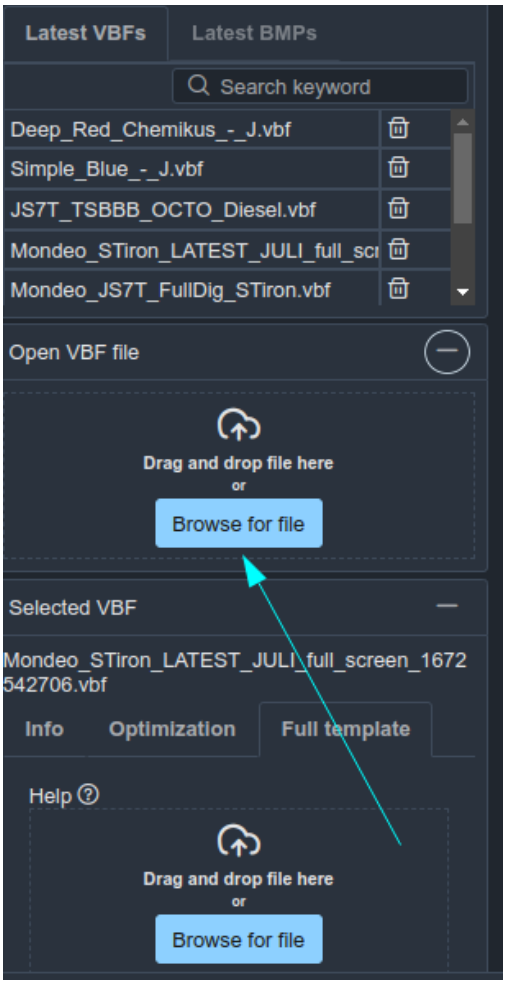
When you will save the file, always as 16bit BMP A1 R5G5B5 :

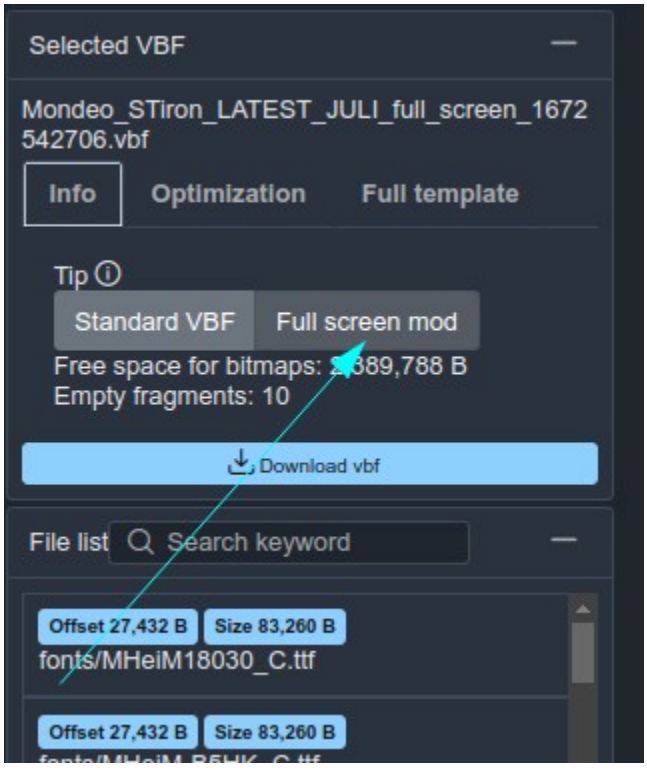


Then you can upload it to the app.

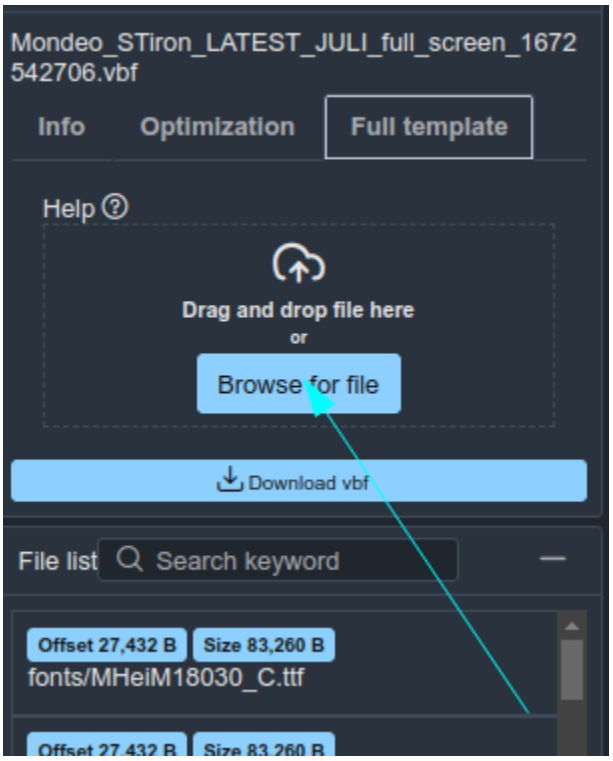
For this you have to use a prepared VBF file. Otherwise the spacings will not be set correct and the file will look like crap.

Or you can use a standard VBF file and prepare it yourself, but there are plenty of files already done, so… You can use whatever full digital template file. But it depends on the cluster you have .

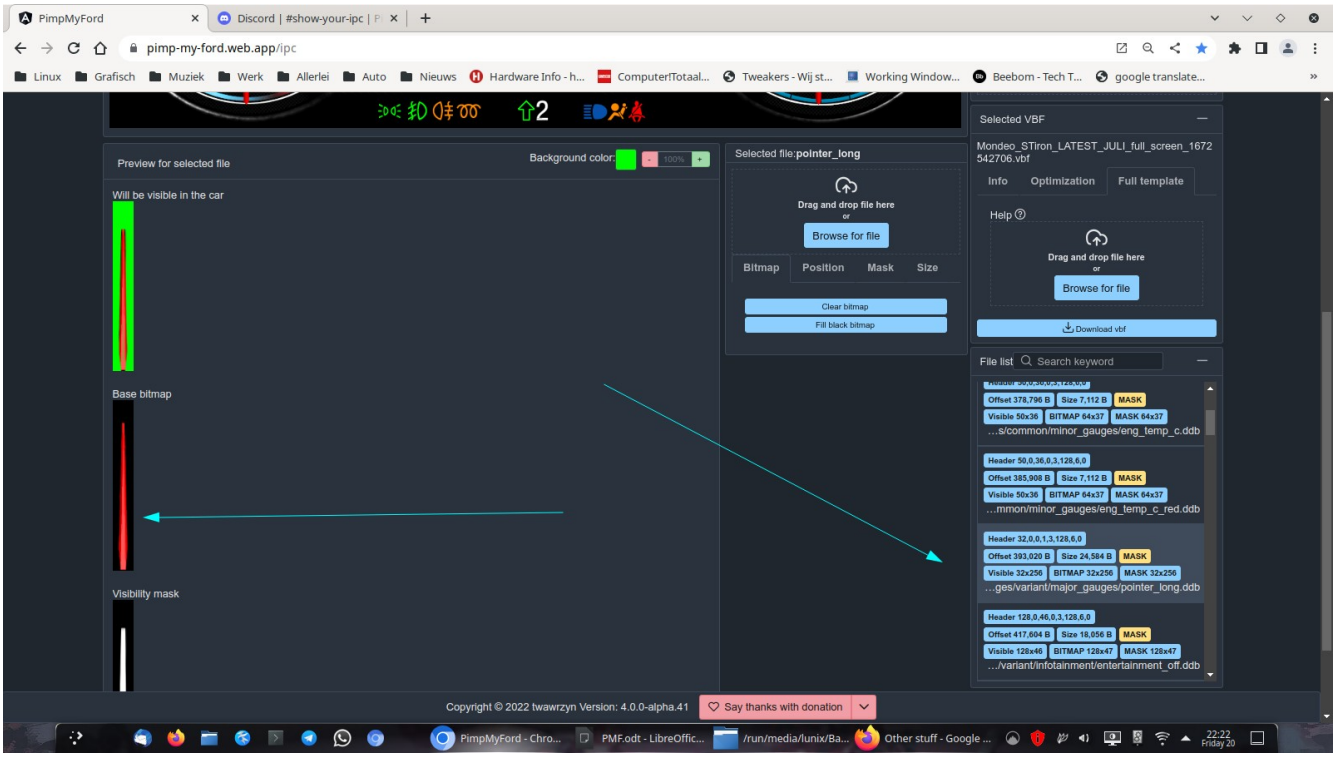

Latest VBFs
Latest BMPs
Search keyword
Deep_Red_Chemikus_-_J.vbf
Simple_Blue_-_J.vbf
JS7T_TSBBB_OCTO_Diesel.vbf
Mondeo_STiron_LATEST_JULI_full_scr
Mondeo_JS7T_FullDig_STiron.vbf
Open VBF file
Drag and drop file here
or
Browse for file
Selected VBF
Mondeo_STiron_LATEST_JULI_full_screen_1672542706.vbf
Info
Optimization
Full template
Help
Drag and drop file here
or
Browse for file


Selected VBF
Mondeo_STiron_LATEST_JULI_full_screen_1672542706.vbf
Info
Optimization
Full template
Tip
Standard VBF
Full screen mod
Free space for bitmaps:
Empty fragments: 10
Download vbf
File list
Search keyword
Offset 27,432 B
Size 83,260 B
fonts/MHeiM18030_C.ttf
Offset 27,432 B
Size 83,260 B

And then upload your _active and/or _quiet template.

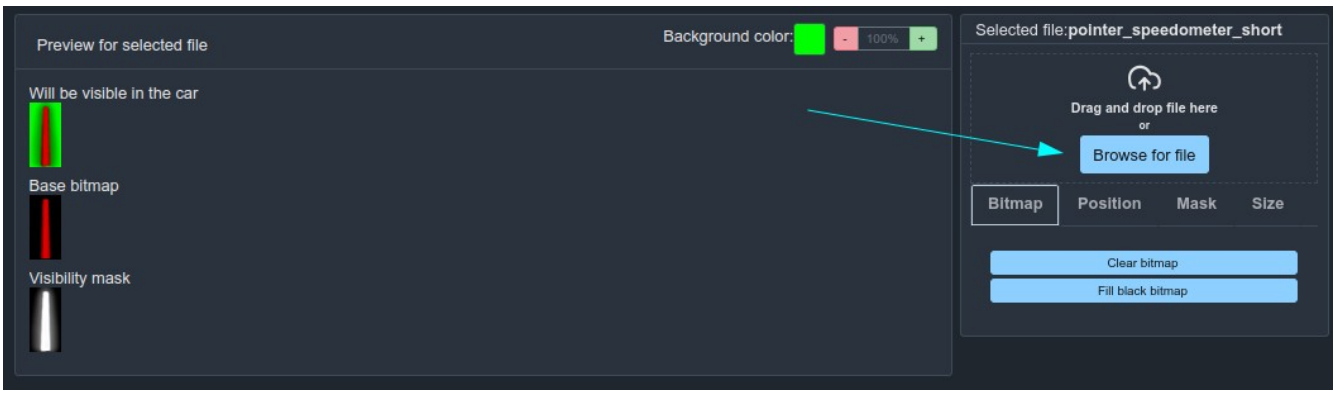


That’s the first step. If you manage this part, you could start changing the needles or other things.

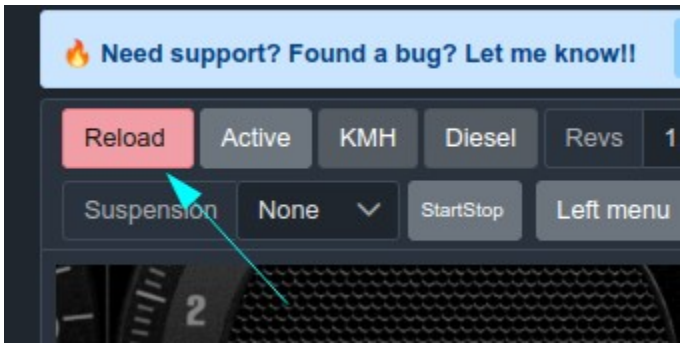


Basically it's really simple. You have the base bitmap and on the other side the visibility mask. The base bitmap is the actual picture. Could be a needle, icon, whatever you want to change on the IPC. Then the mask is the file who outlines what will be displayed. If the mask is smaller than the base bitmap, there will be a part of your picture that will not be displayed.

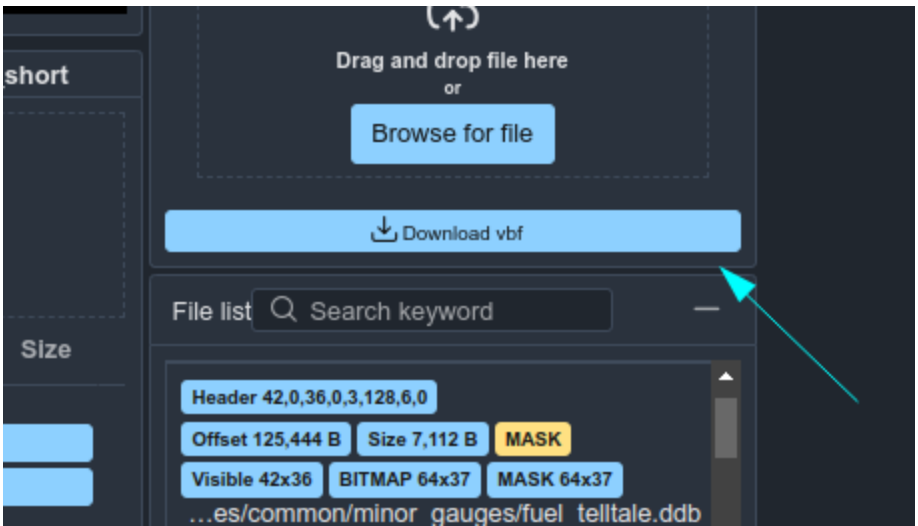
Very important again, the base bitmap should be saved as the same extension as your template. The mask on the other hand must be saved as 8 bit grayscale. Also it must contain the prefix **_mask**



When your images are ready, all you have to do is both upload the base and mask to the app and click reload. Now you will see the result. If the files aren't good, restart the process.

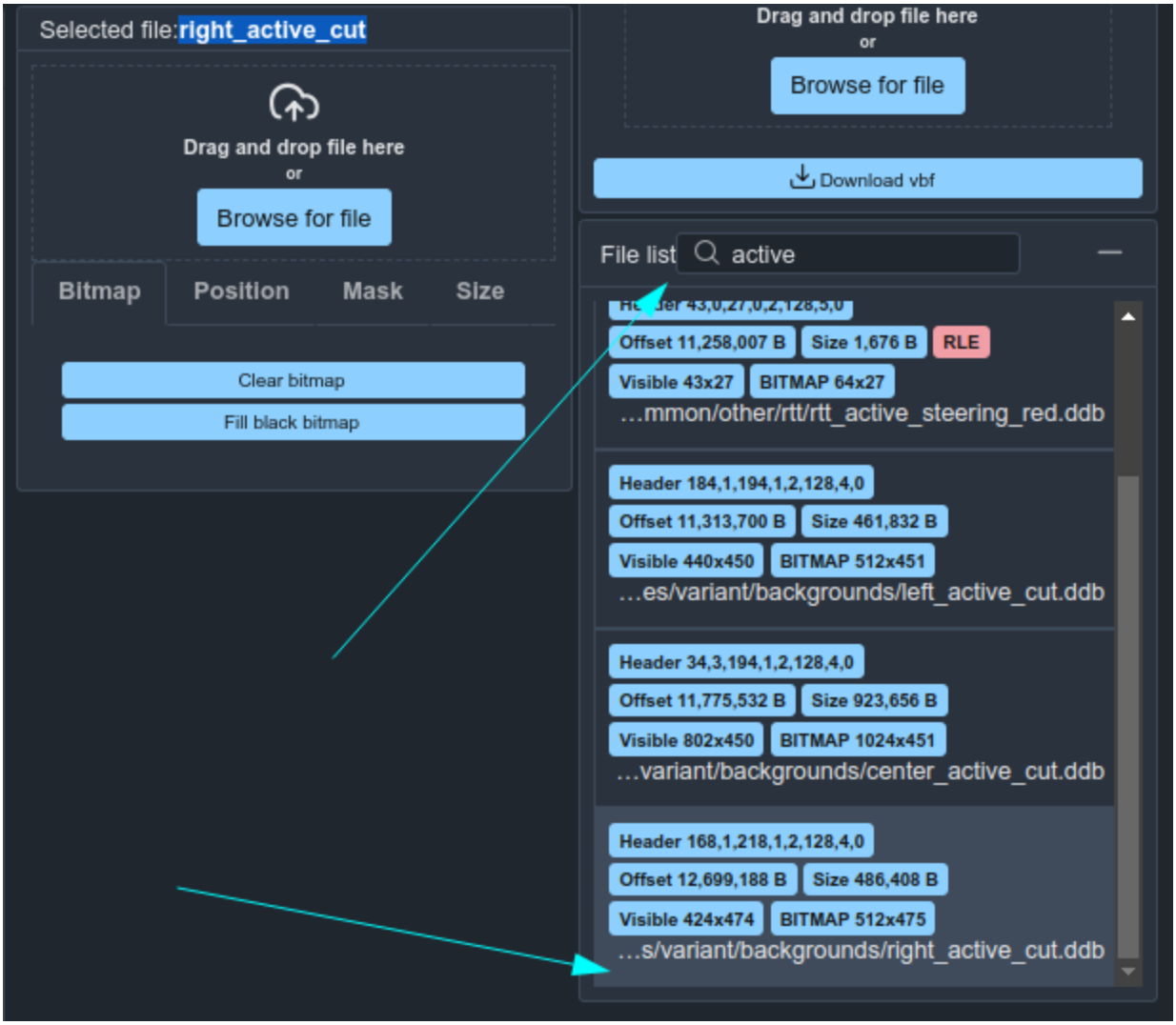


Now, when your file is ready you can download the VBF file to the computer.

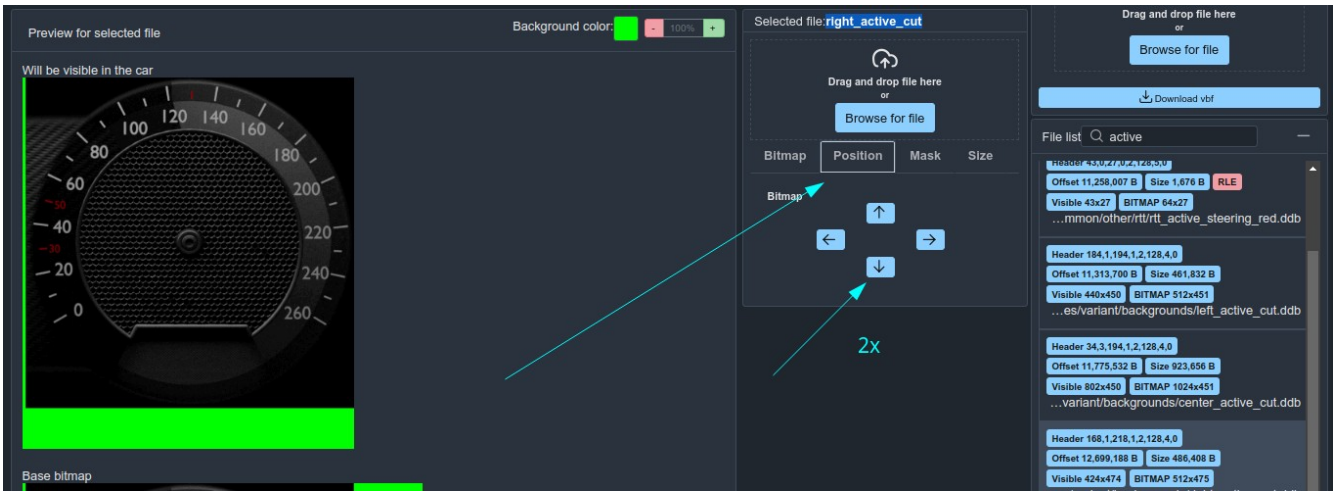


Now there is a chance when you've flashed the file to the car, that you'll notice some sort of artifact or a black line on the right part of the screen. Like the speedometer is too high or too low. That's because of the eeprom. Some cars have this problem, others don't. You can ask Szendo for more info on this matter.

But now we will adjust this, so you're file is really ready to use. It's very simple. Probably you just have to adjust the right_active_cut part of the template. To do this just type in the searchbox "**active"** and scroll down to **right_active_cut**.



You will get this screen… now click on “position” and 2 times on the arrow down. This will move the right active part of the screen 2 pixels lower. Maybe you have to lower the image only 1 px or maybe 3px, but that depends on your IPC.



After that you can download the file again.

So this is basically the explanation. Now you can start making your own files. There are lots of other things I could explain, but I think you’ll have to find out for yourself. It’s really not that hard.

Thanks to Chemikus for the ‘secret’ calculations from the nomask files and Szendo for the wonderfull app, you can adjust your IPC. So a big **thanks** to both of them.

The app : https://pimp-my-ford.web.app/ipc
The discord server with lots of info and people who can help with building the files : https://discord.gg/4XJwy2g9pt

If there are any other questions I could help, you can contact me on TheScaryBigBadBoss@yahoo.com

I also have a bunch of free template files too play with at : https://drive.google.com/drive/folders/1Wrg7Z_t8QP3a41UUkM8Db3pLMYvGeGE6?usp=sharing
For this moment they are not downloadable, because some people ask money for the templates and **THEY ARE FREE**, so if you would like one from the examples, just email me or contact me on Discord, Telegram (TSBBB)